# NATIONAL LIBRARY OF MEDICINE PUBLICATIONS

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**Index Medicus:** Published monthly as a bibliographic listing of references to current articles from approximately 2,600 of the world's biomedical journals. Included are subject and author sections and a separate Bibliography of Medical Reviews. *Medical Subject Headings* and *List of Journals Indexed* are furnished as part of the subscription. Annual subscription (1985): $155.00 ($193.75 foreign); single issues $28.00 ($35.00 foreign). GPO Subscription Code: *IM*

**Medical Subject Headings, 1986.** Published as Part 2 of the January *Index Medicus*. The subject headings in the 1986 *MeSH* are arranged alphabetically, with cross references and in categorized lists. (Included with subscription to **Index Medicus**, also available separately for $24.00 ($30.00 foreign). *S/N 717-032-00002-1*

**Cumulated Index Medicus, 1985, Volume 26:** A cumulation in fourteen volumes of the approximately 290,000 citations appearing in *Index Medicus* in 1985. Included are author and subject sections, Medical Subject Headings, List of Journals Indexed, and Bibliography of Medical Reviews. Price: $196.00 ($245.00 foreign), *S/N 617-052-00258-2;* 1984: $168.00 ($210.00 foreign), *S/N 617-052-00249-3;* 1983: $172.00 ($215.00 foreign), *S/N 617-052-00240-0;* 1982: $260.00 ($325.00 foreign), *S/N 617-052-00232-9;* 1975, 1978-1981: OUT OF PRINT; 1977: $220.00 ($275.00 foreign), *S/N 617-052-00184-5;* 1976: $220.00 ($275.00 foreign), *S/N 617-052-00173-6.*

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**List of Journals Indexed in Index Medicus, 1986.** Contains four listings of journals indexed: title, abbreviations, subject, and geographical. *Note: Beginning in 1986, subscribers to Index Medicus receive this publication automatically.* Price: $9.50 ($11.88 foreign). *S/N 717-032-00003-9.*

**Bibliography of Medical Reviews, 1971-1975 & 1976-1980 are out of print.**

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**A Short Title Catalogue of Eighteenth Century Books Printed in the National Library of Medicine, 1979:** Casebound, 501 pages, 1979. Lists approximately 25,000 items printed from 1701-1800 which are held in the History of Medicine Division collection of the National Library of Medicine. Price: $13.00 ($16.25 foreign).

**Bibliography of the History of Medicine,** a bibliographic listing of citations dealing with the history of medicine and its related sciences and professions, No. 20, 1984: Price: $30.00 ($37.50 foreign), *S/N 017-052-00257-1;* No. 19, 1983: Price: $7.50 ($9.40 foreign) *S/N 017-052-00247-3;* No. 18, 1982: $7.50 ($9.40 foreign) *S/N 017-052-00243-1;* No. 17, 1981: $7.50 ($9.40 foreign) *S/N 017-052-00235-0;* No. 16, 1980: OUT OF PRINT; No. 15, 1975-1979 (includes Nos. 11-14) $22.00 ($27.50 foreign) *S/N 017-052-00216-3;* No. 10, 1970-1974 (includes Nos. 6-9) $24.00 ($30.00 foreign) *S/N 017-052-00171-0.*

**Health Sciences Audiovisuals.** A computer-output-microform (COM) version of NLM's AVLINE database produced on 48X microfiche. Contains citations to all audiovisuals catalogued by NLM since 1975, except cataloging-in-publication (CIP) titles and titles which have been withdrawn from NLM's collection. Annual subscription: $34.00 ($42.50 foreign). Single copy: $13.00 ($16.25 foreign).

**National Library of Medicine Classification:** A Scheme for the Shelf Arrangement of Books in the Field of Medicine and Its Related Sciences. Fourth Edition (1978) Revised 1981. Price: $16.00 ($20.00 foreign). *S/N 017-052-00222-8*

**Highlight in Medicolegal Relations:** An annotated chronology of important events in legal medicine. 1976. Price: $12.00 ($15.00 foreign). *S/N 017-052-00170-1*

**National Library of Medicine AVLINE Catalog (1975-1976):** A listing, by subject, of references to some 2,400 audiovisual instructional materials in the health sciences as cataloged by NLM for its AVLINE (Audiovisuals On-Line) data base, 1977. Price: $10.00 ($12.00 foreign). *S/N 017-052-00183-3*

**NLM Audiovisuals Catalog** (quarterly): Contains subject, name/title, and procurement source sections for audiovisual instructional materials cataloged by NLM. Subscriptions include 3 quarterlies plus annual cumulation (issued in lieu of 4th quarterly). Price (1985): $26.00 ($32.50 foreign). GPO Subscription Code: *MAC*

**NLM Audiovisuals Catalog, 1984 Annual Cumulation:** Issued as part of the *NLM Audiovisuals Catalog* (quarterly); see below. This casebound annual cumulation is also available separately. (NOTE: When ordering include words "4th quarterly, 1984.") Price: $16.00 ($20.00 foreign) *S/N 717-017-00001-3;* (1983) OUT OF PRINT; (1977) $15.00 ($18.75 foreign) *S/N 017-052-00192-2;* (1978) through (1982) OUT OF PRINT.

**Health Sciences Serials:** Published quarterly in microfiche only. Each issue contains information on some 41,500 serials in NLM's SERLINE data base; many records include locator information for 120 libraries in the U.S. Annual subscription: $15.00 ($18.75 foreign); single issue $4.75 ($5.95 foreign). GPO Subscription Code: *HHS*

**Centenary of Index Medicus: 1879-1979.** A collection of essays by noted scholars; originally presented at the National Library of Medicine on the occasion of the 100th anniversary of the publication of *Index Medicus.* Price: $8.00 ($10.00 foreign). *S/N 017-052-00212-1*

**A Review of the U.S. Role in International Biomedical Research and Communications: International Health and Foreign Policy,** By Mary E. Corning. 1980. Price: $9.00 ($11.25 foreign). *S/N 017-052-00203-1*

**A History of the National Library of Medicine: The Nation's Treasury of Medical Knowledge,** by Wyndham D. Miles, Ph.D. 1982. A comprehensive, illustrated history of NLM from its beginnings in the early 19th century through its development as an international biomedical information center. Casebound, 531 pages. Price: $14.00 ($17.50 foreign). *S/N 017-052-00224-4*

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no. 1 (Jan. 1960)- . -- Washington : U.S. Dept. of Health,
Education, and Welfare, Public Health Service ; For sale by
the Supt. of Docs., U.S. G.P.O., [1960-
v.
Continues: Current list of medical literature.
Vols. 1-3, no. 1 called new ser.
Issues for 1960-65 include a separate section called: Recent
United States publications, which consists of reproductions of
the National Library of Medicine catalog cards for current
titles.
Vols. for 1963- include as pt. 2 of the Jan. issue:
Medical subject headings.
Vols. for 1967- include a section with title: Bibliography of
medical reviews.
Issues for Apr. 1972-Apr. 1979 published as DHEW publication ;
no. (NIH) 72-252, etc.; for May 1979- as NIH publication ;
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*NOTE:* Beginning January 1986, the January issue of *Index Medicus,* Part I, no longer includes the section "List of Journals Indexed in *Index Medicus.*" Instead, all subscribers will automatically receive the separate publication *List of Journals Indexed in Index Medicus.* This publication expands upon the previously supplied list by including subject and geographic listings as well as the familiar full title and abbreviation listings. Additional copies of the *1986 List of Journals Indexed in Index* may be ordered from the Superintendent of Documents for $9.50 ($11.88 foreign).

**SUBSCRIPTION PRICES**

*Index Medicus* is sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. One year's subscription includes twelve monthly issues plus *Medical Subject Headings* (published as Part 2 of the January issue) and *List of Journal Indexed.* Price: $155.00 per year ($193.75 foreign). Single copies: $28.00 ($35.00 foreign). Airmail rates (foreign only) furnished on request to the Mail List Section. Superintendent of Documents. All other communications regarding subscription should be addressed to the Superintendent of Documents.

*The Secretary of Health and Human Services has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 30, 1986.*

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# PREFACE

Reference works too often present an austere, depersonalized facade. Although one knows that they are man-made, one feels far removed from the people who labor behind the scenes to make them possible. The literature analysts and others who prepare the *Index Medicus* today are the intellectual descendants of a brilliant and imaginative individual who conceived of a comprehensive index when none existed, and of his successors who carried on the work in spite of frequent adversities.

The first volume of *Index Medicus* was published in 1879, but the story leading up to that event began in 1865, when Dr. John Shaw Billings, a surgeon in the Civil War, was assigned to the office of the Surgeon General of the Army. Among other duties, he was given responsibility for the Surgeon General's small medical library. Perceiving that there were few if any libraries in the country holding a substantial proportion of the medical literature, Billings set about a program of expansion. Within eight years, he had built a collection of 1,800 volumes into one containing over 50,000 volumes and pamphlets. Because there was then no comprehensive medical index, he proceeded with plans to publish a catalog of the library, and a periodical index to the current literature.



**John Shaw Billings, M.D.**

Undaunted when public funds were not authorized for the latter purpose, he found a publisher who would assume the entrepreneurial risk, some physicians to subsidize the project, and he contributed his own time, outside of duty hours, to the selection of the articles to be indexed.

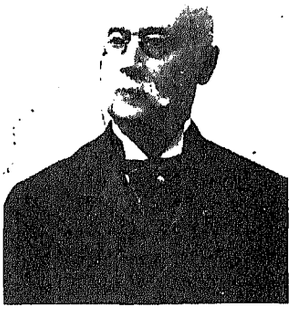
"Few words are required to demonstrate the utility of the projected serial," wrote the editors in their introduction to Volume 1. "The practitioner will find the titles of parallels for his anomalous cases . . . and the latest methods in therapeutics. The teacher will observe what is being written or taught by the masters of his art in all countries. The author will be enabled to add the latest views and cases to his forthcoming work, or to discover where he has been anticipated by other writers."

An early crisis was announced at the end of Volume 6. "With this issue," reads the notice, "the *Index Medicus* will cease to be published." The publisher, Mr. Leypoldt, had died and the managers of his estate could not continue to support the losses that the publication of the *Index* had incurred from the start. "The time has come, therefore, when neither zealous friends nor generous publishers can be allowed to make further efforts or sacrifices, and the publication is discontinued. Whether it will, in some other shape, or under some other auspices, again appear, is for the future to decide." Happily another altruistic publisher was found promptly, and *Index Medicus* continued without missing a volume.

Dr. Billings had founded well, and the *Index Medicus* always received his support even while his energies were otherwise directed. The range of his activities, both during his tenure as head of the Library and after his retirement from the Army in 1895, was phenomenal. They encompassed not only the



**Fielding H. Garrison, M.D.**



**Robert Fletcher, M.D.**

operation of the Library but also aspects of the 10th Census (1880), assisting the organizers to staff the new Johns Hopkins Medical School and hospital and designing the hospital buildings, the organization and direction of the New York Public Library, and chairmanship of the Board of Trustees of the Carnegie Institution. From the beginning, a large part of the responsibility and credit for implementing Dr. Billings' idea was shared by his colleague and successor, Dr. Robert Fletcher, who carried on the work, with a minor interruption, from 1879 until his retirement in 1912 at age 89. He in turn was succeeded by Dr. Fielding Garrison who had earned a medical degree after joining the library staff in 1891, and had become Associate Editor in 1903. Dr. Garrison remained editor until the merger of *Index Medicus* with the Quarterly Cumulative Index in 1927. In addition to his editorial duties, he is renowned for his authorship of many historical papers and for his classic "An Introducton to the History of Medicine."

Although the *Index Medicus* underwent changes in title and frequency of issue, its publication over the past century was

sustained without interruption. The Library has always been involved in indexing the literature, even when the expenses of publishing have been borne by others. Among these were private companies (F. Leypoldt, 1879-1884, George S. Davis, 1885-1894, and Rockwell and Churchill, 1895-1899); the Institute of Bibliography in Paris (1900-1902); the Carnegie Institution (1903-1926); and the American Medical Association (1927-1959).

In 1960, the National Library of Medicine (the direct organizational descendant of the Surgeon General's Library) resumed publishing *Index Medicus* monthly under its original title, and its printing and distribution have been handled by the U.S. Government Printing Office. Also since 1960 there has been published an annual cumulation known as *Cumulated Index Medicus*. The first four annual volumes were published by the American Medical Association; since 1964 it has been published by the National Library of Medicine (NLM).

In 1960, the same year NLM resumed responsibility for publishing *Index Medicus*, the Library wrote specifications for a computerized system to aid in its preparation. Not only has the new system facilitated an improved and more timely *Index Medicus*, but it has made possible the publication of a wide variety of specialized bibliographies and has also permitted individual searches of the entire data base of *Index Medicus* references.

Since 1970, searching of the NLM's computerized bibliographic data bases has been possible from remote locations. The number and size of these data bases have increased, as has the ease with which they may be searched. Over two thousand institutions now have access to these services.

John Shaw Billings, seeking to improve medical communication, relied on the printed word as the most available means toward that end. As *Index Medicus* begins its second century, NLM continues to seek new ways to foster professional communication among those in the health community, but for the foreseeable future *Index Medicus* will play an essential role in that effort.

Editor, *Index Medicus*

# SUBJECT HEADING CHANGES

One of the great advantages that a printed bibliography has over a computerized citation retrieval system is the ease with which one can scan it. One may often find articles of interest and value in *Index Medicus* without any preliminary training or experience.

However, if the subject of interest is not a common one, or if the user wishes to perform a really thorough search, he handicaps himself if he neglects to take the time to become acquainted with some of the tricks of *Index Medicus* use suggested in the introduction to this volume. Most important among these is the use of *MeSH*—the medical subject heading thesaurus used in indexing.

MeSH is revised and updated each year. A copy is distributed with each January issue of *Index Medicus*, and is included in the first part of each *Cumulated Index Medicus*. It should be available to every *Index Medicus* user.

A given volume of *Index Medicus* contains the subject heading for which there are appropriate citations in that volume—and cross references to those subject headings. *MeSH* contains an alphabetic list of all allowable subject headings and cross references, including those which may not be represented by citations in any given volume of *Index Medicus*. It also contains "trees." These are hierarchical arrays of subject headings classified by subject. This facilitates finding subject headings that are related conceptually even if they are not close alphabetically.

In 1985 as in previous years, some new subject headings have been added, and some old ones deleted. The additions serve to provide logical places to look for newly emerging concepts, or they provide more specificity in expanding subject fields. In some cases they may replace older, less currently acceptable terminology for established concepts. Subject headings are deleted if they are concerned with subjects that are so rarely written about that they no longer merit a separate heading, of if they have been replaced by more up-to-date headings.

In the annual *MeSH* revisions an attempt is made to maintain a balance between fexibility and stability. Although it is our wish to have a dynamic thesaurus, responsive to current changes in terminology as reflected in the literature we index, we are acutely aware that changes create problems for those who follow a subject in *Index Medicus* from year to year, and for the many medical libraries that use *MeSH* subject headings in their card catalogs. We therefore hesitate to introduce headings that offer only slight improvement, or those that seem to represent what may be transient interests. We also try to avoid fine distinctions that may be understood by only a limited group of users within a given subject field.

Our subject headings tend to follow the usage in the literature rather than to anticipate it. They generally do not reflect the hopes of limited groups that advocate usage that may or may not gain wide acceptance. Yet, when possible, we give preference to terminology that has the authority of major professional organizations, with the realization that few such authorities enjoy universal acceptance.

# INDEX MEDICUS CITATION FORMAT

In 1977, the American National Standards Institute (ANSI) accepted and published a standard for bibliographic references.[1] Before adoption, the standard had been approved by 55 institutions and organizations, including the American Chemical Society, the American Institute of Physics, the American Society for Information Science, BioSciences Information Service (BIOSIS), the Council of Biology Editors, the Library of Congress, the National Academy of Sciences, and the National Library of Medicine. Although not an international standard, it incorporates many concepts used by various international organizations concerned with bibliographic forms.

The formats that *Index Medicus* had been using for journal article references did not conform to any of the alternative forms prescribed in the new standard. In order to bring *Index Medicus* into conformity, revised citation formats were adopted, beginning with the January 1980 issue.

For journal article citations:

**Stein MK, Downing RW, Rickels K.** Self-estimates in anxious and depressed outpatients treated with pharmacotherpy. Psychol Rep 1978 Oct; 43 (2): 487-92

Note that the date of publication, beginning with a four digit year, was moved from the end of the citation to a position immediately following the journal title abbreviation.

It is anticipated that the general adoption of the ANSI standard by indexing and abstracting services, and by journal and book publishers, may reduce the inconveniences that result from the widely differing styles that have been prevalent. Efforts to encourage wide use of the standard forms by medical publications are well advanced.[2-7] For full details, one should consult Standard Z39.29-1977, the American National Standard for Bibliographic References, which may be purchased from the American National Standards Institute, Inc., 1430 Broadway, N.Y.C., N.Y. 10018.

References


[1]American National Standards Institute. American national standard for bibliographic references, Z39.29-1977. New York: American National Standards Institute, 1977.

[2]Huth EJ. Standard forms for references. *Ann Intern Med* 1970 Jan; 72: 140-1.

[3]International Steering Committee. Uniform requirements for manuscripts submitted to biomedical journals. *AM Rev Respir Dis* 1979 Jan; 119: 3-10.

[4]International Steering Committee. Uniform requirements for manuscripts submitted to biomedical journals. *Br Med J* 1979 Feb 24; a:532-5.

[5]International Steering Committee. Uniform requirements for manuscripts submitted to biomedical journals. *Lancet* 1979 Feb 24; 1:428-31.

[6]International Steering Committee. Uniform requirements for manuscripts submitted to biomedical journals. *Ann Intern Med* 1979 Jan; 90: 95-9.

[7]Huth EJ. New forms for references. *Br Med J* 1979 Jun 23; 1: 1697-8.

# INTRODUCTION

*Index Medicus* is the National Library of Medicine's monthly bibliography of the literature of biomedicine. The cumulated contents of the twelve monthly *issues* (January-December) comprise the annual *Cumulated Index Medicus.*

## MATERIALS INDEXED

*Index Medicus* contains citations to the serial journal literature.

In the selection of materials for indexing, the National Library of Medicine is advised by a group of distinguished physicians, medical editors, and medical librarians. The Library indexes the literature that has been judged most useful to *Index Medicus* users, but it is not possible to include every journal that might contain useful articles.

An effort is made to maintain a reasonable balance of subject matter. The inclusion of a journal should not be construed as indicating that it is considered superior to one that is not indexed: the omission of a publication does not necessarily reflect on its quality.

Original journal articles are indexed, as well as those letters, editorials, biographies, and obituaries that have substantive contents. Abstracts of articles are never indexed. In certain journals which cover fields other than biomedicine, only those articles related to biomedicine are selected for inclusion in *Index Medicus.*

Some journals that are published in a foreign language are also published in English translation, but *Index Medicus* cites only one source. This is almost invariably the original foreign language publication because it is available earlier and is the ultimate source of information concerning the author's intent. For up-to-date information about the availability of English translation journals, particularly Consultants Bureau translations of Soviet journals, a medical librarian should be consulted.

Beginning in 1971, the journal title abbreviations used in *Index Medicus* were formulated according to the rules of the *American National Standard for the Abbreviation of Title of Periodicals.* – The Library now follows the *International Standard ISO–4–1972: Documentation – International Code for the Abbreviation of Titles of Periodicals,*[2] which is an adaptation of the American standard and nearly identical to it.

For the abbreviation of any specific journal cited in *Index Medicus,* see the *List of Journals Indexed in Index Medicus* (*LJI*) which is provided with the January issue of *Index Medicus* and in the annual cumulation. *LJI* is also available separately from the Government Printing Office (see National Library of Medicine publications, inside front cover of any monthly issue of *Index Medicus*).

A few medical journals publish several editions, intended for different countries, different groups of readers. *Index Medicus* cites only one edition, – usually the one that is most widely distributed in the United States. Although the editors of some of these journals assure that the citation for the edition that is indexed is correct for all other editions, there are othe journals for which this is not true. For this reason, the page and issue numbers included in the *Index Medicus* citations may not be helpful to the readers of variant editions of such journals.

## THE INDEXING OPERATION

Materials selected for inclusion are indexed by highly trained literature analysts. The content of each piece is described by assigning terms selected from *Medical Subject Headings* (*MeSH*), the Library's controlled vocabulary of technical terms. *MeSH* is published as Part 2 of the January *Index Medicus* and is reproduced in its entirety in *Cumulated Index Medicus.* Additional copies of *MeSH* may be purchased from the Government Printing Office (see NLM Publications, inside front cover of *MeSH*).

In indexing, the analyst assigns as many subject headings as are necessary to describe adequately the content of each article.

Each journal article is cited in *Index Medicus* only under those subject headings which represent the most important concepts of the article. All subject heading, including those representing more peripheral concepts, are stored in MEDLINE (Medline Literature Analysis and Retrieval System Online), the Library's computer-based file of citations, for use in machine retrieval.

In *Index Medicus,* citations are published only under terms appearing in *MeSH.* If the medical concept soughts is not in *MeSH* the *MeSH* equivalent must be found. For example, citations on German measles would appear in *Index Medicus* under its *MeSH* equivalent, RUBELLA.

When materials are indexed for *Index Medicus,* the most specific terms available in *MeSH* are used. Thus, if an article is concerned with erythromycin, it would be indexed under that term, rather than the broader ANTIBIOTICS. Under the latter term, one would find only: (a) articles dealing with antibiotics generally, (b) those that deal in a very general way with a large number of named antibiotics, or (c) those that deal with specific antibiotics which have not been separately listed in *MeSH.*

The user who is interested in one concept may find that the broader term is also worth examining for articles of possible interest. Although one may be interested primarily in penicillin sensitivity, reports on the general subject of antibiotic sensitivity may be useful.

The user who wants information on some aspect of the use of antibiotics in pediatric practice would certainly want not only the general materials that would appear under ANTIBIOTICS, but also those concerned with specific antibiotics.

Because is is impossible to group together all terms directly or indirectly related to a particular concept, the following should be considered when searching this bibliography.

1. Direct form of the term (LUNG ABSCESS)
2. Inverted form of the term (ANEMIA, HEMOLYTIC)
3. Noun form (LIVER, KIDNEY, BRAIN)
4. Adjective form (HEPATIC COMA, CEREBRAL REVASCULARIZATION)
5. Function words which imply the concept in mind (THINKING for BRAIN, DIGESTION for GASTROINTESTINAL SYSTEM)
6. Terms for techniques which imply the concept in mind (ELECTROCARDIOGRAPHY for HEART).
7. Synonyms or near-synonyms (VERTIGO for DIZZINESS)
8. Broader and narrower terms.

The best way to find broader and narrower terms is by reference to the "tree structures" in *MeSH*, where terms are grouped into fourteen subject categories and arranged in a hierarchical manner with specific terms indented under the more general one. For example, in subcategory D20, under ANTIBIOTICS, many types of antibiotics, such as ANTIBIOTICS, ANTINEOPLASTIC are listed. Indented under that term are several even more specific terms. (Terms followed by an asterisk (*) may be used for machine retrival, but never appear as subject headings in *Index Medicus.*) Thus, broader or narrower terms may be found merely by scanning these hierarchical lists.

The *Index Medicus* user generally starts with one or more medical terms in mind which express his or her own subject interest. If the user does not find a given term in the alphabetical list, examination of an appropriate "tree structure" may reveal a synonym or a broader

[1] American National Standards Institute, American National Standards for the Abbreviation of Titles of Periodicals. Approved September 16, 1969.

[2] International Standards Organization. International Standard ISO-4-1972 (E). Documentation-International code for the Abbreviation of Titles of Periodicals. Available from American National Standards Institute, 1430 Broadway, New York 10018.

term under which the desire literature might have been indexed. When a usable term is found, examination of nearby entries in the alphabetic list may reveal related terms that are also worth searching in the *Index Medicus* Subject Section.

## SUBJECT SECTION

Each article cited in *Index Medicus* is printed under one or more subject headings, and the entry appears in full under each.

*Journal Articles:*

Each entry contains the following elements, in order: original English title of article, or English translation of title in brackets; first author (if more than one) or sole author; journal title abbreviation; date of issue; volume number; issue, part or supplement; inclusive pagination; the notation Eng. Abstr. for those non-English articles which provide an abstract in English; and an abbreviation indicating the language of the article if other than English. For the names of all authors in a citation, refer to the Author Section. The journal title abbreviation is in bold-face type; the full journal title may be found in the abbreviations listing in the *List of Journals Indexed in the Index Medicus.*

Example of typical journal article citations:

> Long-term evaluation of chlorambucil plus prednisone in the idiopathic nephrotic syndrome of childhood. Williams SA, et al. **N. Engl J Med** 1980 Apr 24;302(17);929-33

cited under CHLORAMBUCIL/ADMINISTRATION & DOSAGE., NEPHROTIC SYNDROME/DRUG THERAPY, and PREDNISONE/ADMINISTRATION & DOSAGE.

> [Excretion of catecholamines in juvenile diabetes mellitus] Kornas-Debejko A, et al. **Endokrynol Pol** 1979 Nov-Dec: 30(6):539-48 (Eg. Abst.) **(Pol)**

cited under DIABETES MELLITUS, JUVENILE/URINE, EPINEPHRINE/URINE, NOREPINEPHRINE/URINE.

*Order of Citations:*

Under each subject heading, the entries are grouped according to the original language of the text, with the English-language items appearing first, followed by citations for works published in other languages, arranged alphabetically by language. Within each language group, the articles are alphabetically ordered by journal title abbreviation.

*Non-English Language Abbreviations*

| | | | |
|---|---|---|---|
| Afr | Afrikaans | Kor | Korean |
| Alb | Albanian | Lit | Lithuanian |
| Ara | Arabic | Mac | Macedonian |
| Arm | Armenian | Mul | Multilingual |
| Aze | Azerbaijani | Nor | Norwegian |
| Bul | Bulgarian | Per | Persian, Modern |
| Chi | Chinese | Pol | Polish |
| Cze | Czech | Por | Portuguese |
| Dan | Danish | Pus | Pushto |
| Dut | Dutch | Rum | Romanian |
| Fin | Finnish | Rus | Russian |
| Fre | French | Scc | Serbo-Croatian, Cyrillic |
| Geo | Georgian | Scr | Serbo-Croatian, Roman |
| Ger | German | Sol | Slovak |
| Gre | Greek,Modern | Slv | Slovene |
| Heb | Hebrew | Spa | Spanish |
| Hun | Hungarian | Swe | Swedish |
| Ice | Icelandic | Tha | Thai |
| Ind | Indonesian | Tur | Turkish |
| Ita | Italian | Ukr | Ukrainian |
| Jpn | Japanese | Vie | Vietnamese |

*Overall Citations:*

When an issue of a serial contains a sequence of articles having a unifying theme, a citation may be created to lead readers to the sequence as a whole. These overall citations are made for proceedings of major national and international conferences, and for abstracts of proceedings. The latter are labeled "Abstracts" in the title but are not indexed individually. No authors' names appear on overall citations.

Example of overall citation when individual articles are indexed:

> Pseudomonas aeruginosa: new therapeutic approaches from basic research. **Antibiot Chemother** 1985;36:1-176

Example of individual citations included within the overall:

> Pseudomonas aeruginosa surface polysaccharide vaccines. New therapeutic approaches from basic research. Pier GB. **Antibiot Chemother** 1985;36:157-67
>
> Characterization of mouse monoclonal antibodies directed against Pseudomonas aeruginosa lipopolysaccharides. Sadoff JC, et al. **Antibiot Chemother** 1985;36;134-46
>
> Opsonin-independent phagocytosis of Pseudomonas-aeruginosa. Speert DP, et al. **Antibiot Chemother** 1985; 36:88-94

Example of overall citation when individual items are abstracts:

> Annual meeting of the Research Society on Alcoholism. May 29-June 1, 1985, Isle of Palms, South Carolina. Abstracts. **Alcoholism (NY)** 1985 Mar-Apr;9(2):184-219

*Retractions:*

When an article is retracted in the journal in which it was originally published, the retraction is cited under the subject heading RETRACTION OF PUBLICATION.

## AUTHOR SECTION

*Author:*

An Author Section citation may provide the names of as many as ten authors of an article. If an article has eleven or more authors, this is indicated by "et al" after the tenth author's name. The complete citation is printed only under the first author's name; the second through the tenth authors' names are cross-referenced to the full citation under the first author's name, thus:

> **Gerson MC, Deutsch EA, Nishiyama H, Libson KF, Adolph RJ, Grossman LW, Sodd VJ, Fortman DL, Vanderheyden JE, Williams CC,** et al. Myocardial perfusion imaging with 99m Tc-DMPE in man. Eur J Nucl Med 1983 Sep: 8(9):371-4
>
> **Adolph RJ** see **Gerson Mc**
> **Deutsch EA** see **Gerson MC**
> **Fortman DL** see **Gerson MC**
> **Grossman LW** see **Gerson MC**
> **Libson KF** see **Gerson MC**
> **Nishiyama H** see **Gerson MC**
> **Sodd VJ** see **Gerson MC**
> **Vanderheyden JE** see **Gerson MC**
> **Williams CC** see **Gerson MC**

*Title*

The author is followed by the title of the article or monograph chapter in the vernacular, and then the other bibliographic elements as they appear in the Subject Section (described above). The title of the article is supplied in translated form only (as in the Subject Section), and not in the vernacular, for citations in the following language: Arabic, Armenian, Azerbaijani, Chinese, Georgian, Hebrew, Japanese, Korean, Persian, Pushto, Thai, and Vietnamese. Titles in the following languages are transliterated into Roman script: Bulgarian, Greek, Russian, Serbo-Croatian, and Ukrainian.

Example of title in the vernacular:

> **Wahl H, Radochay L.** Ergebnisse der operativen Behandlug der habituellen und rezidievirenden Schulterluxation. Beitr Orthop Traumatol 1979 Sep: 26(9):507-9 **(Ger)**

# INTRODUCTION

*Index Medicus* is the National Library of Medicine's monthly bibliography of the literature of biomedicine. The cumulated contents of the twelve monthly *issues* (January-December) comprise the annual *Cumulated Index Medicus.*

## MATERIALS INDEXED

*Index Medicus* contains citations to the serial journal literature.

In the selection of materials for indexing, the National Library of Medicine is advised by a group of distinguished physicians, medical editors, and medical librarians. The Library indexes the literature that has been judged most useful to *Index Medicus* users, but it is not possible to include every journal that might contain useful articles.

An effort is made to maintain a reasonable balance of subject matter. The inclusion of a journal should not be construed as indicating that it is considered superior to one that is not indexed: the omission of a publication does not necessarily reflect on its quality.

Original journal articles are indexed, as well as those letters, editorials, biographies, and obituaries that have substantive contents. Abstracts of articles are never indexed. In certain journals which cover fields other than biomedicine, only those articles related to biomedicine are selected for inclusion in *Index Medicus.*

Some journals that are published in a foreign language are also published in English translation, but *Index Medicus* cites only one source. This is almost invariably the original foreign language publication because it is available earlier and is the ultimate source of information concerning the author's intent. For up-to-date information about the availability of English translation journals, particularly Consultants Bureau translations of Soviet journals, a medical librarian should be consulted.

Beginning in 1971, the journal title abbreviations used in *Index Medicus* were formulated according to the rules of the *American National Standard for the Abbreviation of Title of Periodicals.* – The Library now follows the *International Standard ISO–4–1972: Documentation – International Code for the Abbreviation of Titles of Periodicals,*[2] which is an adaptation of the American standard and nearly identical to it.

For the abbreviation of any specific journal cited in *Index Medicus,* see the *List of Journals Indexed in Index Medicus* (*LJI*) which is provided with the January issue of *Index Medicus* and in the annual cumulation. *LJI* is also available separately from the Government Printing Office (see National Library of Medicine publications, inside front cover of any monthly issue of *Index Medicus*).

A few medical journals publish several editions, intended for different countries, different groups of readers. *Index Medicus* cites only one edition, – usually the one that is most widely distributed in the United States. Although the editors of some of these journals assure that the citation for the edition that is indexed is correct for all other editions, there are othe journals for which this is not true. For this reason, the page and issue numbers included in the *Index Medicus* citations may not be helpful to the readers of variant editions of such journals.

## THE INDEXING OPERATION

Materials selected for inclusion are indexed by highly trained literature analysts. The content of each piece is described by assigning terms selected from *Medical Subject Headings* (*MeSH*), the Library's controlled vocabulary of technical terms. *MeSH* is published as Part 2 of the January *Index Medicus* and is reproduced in its entirety in *Cumulated Index Medicus.* Additional copies of *MeSH* may be purchased from the Government Printing Office (see NLM Publications, inside front cover of *MeSH*).

In indexing, the analyst assigns as many subject headings as are necessary to describe adequately the content of each article.

Each journal article is cited in *Index Medicus* only under those subject headings which represent the most important concepts of the article. All subject heading, including those representing more peripheral concepts, are stored in MEDLINE (Medline Literature Analysis and Retrieval System Online), the Library's computer-based file of citations, for use in machine retrieval.

In *Index Medicus,* citations are published only under terms appearing in *MeSH.* If the medical concept soughts is not in *MeSH* the *MeSH* equivalent must be found. For example, citations on German measles would appear in *Index Medicus* under its *MeSH* equivalent, RUBELLA.

When materials are indexed for *Index Medicus,* the most specific terms available in *MeSH* are used. Thus, if an article is concerned with erythromycin, it would be indexed under that term, rather than the broader ANTIBIOTICS. Under the latter term, one would find only: (a) articles dealing with antibiotics generally, (b) those that deal in a very general way with a large number of named antibiotics, or (c) those that deal with specific antibiotics which have not been separately listed in *MeSH.*

The user who is interested in one concept may find that the broader term is also worth examining for articles of possible interest. Although one may be interested primarily in penicillin sensitivity, reports on the general subject of antibiotic sensitivity may be useful.

The user who wants information on some aspect of the use of antibiotics in pediatric practice would certainly want not only the general materials that would appear under ANTIBIOTICS, but also those concerned with specific antibiotics.

Because is is impossible to group together all terms directly or indirectly related to a particular concept, the following should be considered when searching this bibliography.

1. Direct form of the term (LUNG ABSCESS)
2. Inverted form of the term (ANEMIA, HEMOLYTIC)
3. Noun form (LIVER, KIDNEY, BRAIN)
4. Adjective form (HEPATIC COMA, CEREBRAL REVASCULARIZATION)
5. Function words which imply the concept in mind (THINKING for BRAIN, DIGESTION for GASTROINTESTINAL SYSTEM)
6. Terms for techniques which imply the concept in mind (ELECTROCARDIOGRAPHY for HEART).
7. Synonyms or near-synonyms (VERTIGO for DIZZINESS)
8. Broader and narrower terms.

The best way to find broader and narrower terms is by reference to the "tree structures" in *MeSH*, where terms are grouped into fourteen subject categories and arranged in a hierarchical manner with specific terms indented under the more general one. For example, in subcategory D20, under ANTIBIOTICS, many types of antibiotics, such as ANTIBIOTICS, ANTINEOPLASTIC are listed. Indented under that term are several even more specific terms. (Terms followed by an asterisk (*) may be used for machine retrival, but never appear as subject headings in *Index Medicus.*) Thus, broader or narrower terms may be found merely by scanning these hierarchical lists.

The *Index Medicus* user generally starts with one or more medical terms in mind which express his or her own subject interest. If the user does not find a given term in the alphabetical list, examination of an appropriate "tree structure" may reveal a synonym or a broader

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term under which the desire literature might have been indexed. When a usable term is found, examination of nearby entries in the alphabetic list may reveal related terms that are also worth searching in the *Index Medicus* Subject Section.

## SUBJECT SECTION

Each article cited in *Index Medicus* is printed under one or more subject headings, and the entry appears in full under each.

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Example of typical journal article citations:

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cited under CHLORAMBUCIL/ADMINISTRATION & DOSAGE., NEPHROTIC SYNDROME/DRUG THERAPY, and PREDNISONE/ADMINISTRATION & DOSAGE.

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*Non-English Language Abbreviations*

| | | | |
|---|---|---|---|
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| Alb | Albanian | Lit | Lithuanian |
| Ara | Arabic | Mac | Macedonian |
| Arm | Armenian | Mul | Multilingual |
| Aze | Azerbaijani | Nor | Norwegian |
| Bul | Bulgarian | Per | Persian, Modern |
| Chi | Chinese | Pol | Polish |
| Cze | Czech | Por | Portuguese |
| Dan | Danish | Pus | Pushto |
| Dut | Dutch | Rum | Romanian |
| Fin | Finnish | Rus | Russian |
| Fre | French | Scc | Serbo-Croatian, Cyrillic |
| Geo | Georgian | Scr | Serbo-Croatian, Roman |
| Ger | German | Sol | Slovak |
| Gre | Greek,Modern | Slv | Slovene |
| Heb | Hebrew | Spa | Spanish |
| Hun | Hungarian | Swe | Swedish |
| Ice | Icelandic | Tha | Thai |
| Ind | Indonesian | Tur | Turkish |
| Ita | Italian | Ukr | Ukrainian |
| Jpn | Japanese | Vie | Vietnamese |

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Example of individual citations included within the overall:

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>
> Characterization of mouse monoclonal antibodies directed against Pseudomonas aeruginosa lipopolysaccharides. Sadoff JC, et al. **Antibiot Chemother** 1985;36;134-46
>
> Opsonin-independent phagocytosis of Pseudomonas-aeruginosa. Speert DP, et al. **Antibiot Chemother** 1985; 36:88-94

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*Retractions:*

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## AUTHOR SECTION

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>
> **Adolph RJ** see **Gerson Mc**
> **Deutsch EA** see **Gerson MC**
> **Fortman DL** see **Gerson MC**
> **Grossman LW** see **Gerson MC**
> **Libson KF** see **Gerson MC**
> **Nishiyama H** see **Gerson MC**
> **Sodd VJ** see **Gerson MC**
> **Vanderheyden JE** see **Gerson MC**
> **Williams CC** see **Gerson MC**

*Title*

The author is followed by the title of the article or monograph chapter in the vernacular, and then the other bibliographic elements as they appear in the Subject Section (described above). The title of the article is supplied in translated form only (as in the Subject Section), and not in the vernacular, for citations in the following language: Arabic, Armenian, Azerbaijani, Chinese, Georgian, Hebrew, Japanese, Korean, Persian, Pushto, Thai, and Vietnamese. Titles in the following languages are transliterated into Roman script: Bulgarian, Greek, Russian, Serbo-Croatian, and Ukrainian.

Example of title in the vernacular:

> **Wahl H, Radochay L.** Ergebnisse der operativen Behandlug der habituellen und rezidievirenden Schulterluxation. Beitr Orthop Traumatol 1979 Sep: 26(9):507-9 **(Ger)**

Example of translated title:

> **Sakato M, Takahashi S. Sekiguchi S, Chujyo N.** [Simulation of K-contracture curve in smooth muscle (author's transl)] Nippon Yakurigaku Zasshi 1979 Mar:75(2): 171-83 (Eng. Abstr.) **(Jpn).**

Example of transliterated title:

> **Nemonova NM, Glasko En, Protasova TG, Ivanova Tn, Vlasova AG.** Morfofunktsional'nye izmeneniia selezenki pri idiopaticheskoi trombotsitopenicheskoi purpure. Arkh Patol 1983:45(3):29-33 (Eng. Abstr.) **(Rus)**

*Name of Individual as Subject:*

Articles about individuals are cited in the Author Section with the subject's name enclosed in parentheses and preceding the other components of the entry. A separate entry is also provided under the name of the author in the usual manner. anonymous biographies and obituaries appear only under the subject's names.

> **(Ingelfinger FJ), Relman AS.** Franz J. Ingelfinger, 1910-1980. N Engl J Med 1980 Apr 10:302(15):859-60
> **Relman AS.** Franz J. Ingelfinger, 1910-1980. N Engl J Med 1980 Apr 10:302(15):859-60

*Anonymous Non-English Citations:*

A separate subsection is provided at the end of the Author Section for anonymous non-English language references. Special treatment is accorded the material in order to have an authenic reference to the work in the original language form. In this subsection, the journal article entries are arranged alphabetically under the journal title abbreviation.

## MEDICAL REVIEWS

Medical reviews are defined by the Library as well-documented surveys of the recent biomedical literature. In most cases the surveys include a list of references either in the body of the paper or as a bibliography. Articles which include case reports are considered reviews only when the case reports serve to document the subject of the review.

Materials with the following characteristics are *not* considered as reviews; case reports or original research articles containing a review of literature as an adjunct; statistical and epidemiological surveys; historical reviews, bibliographies which comprise only a listing of references; monthly summaries of subject area which appear as a regular feature in journals; theses; and lengthy publications covering many aspects of a specific subject which are more appropriately considered as refresher courses rather than reviews.

Citations to reviews are included in the "Medical Reviews" section of the monthly *Index Medicus* and *Cumulated Index Medicus* as well as in the Subject Section and Author Section of each.

## OTHER BIBLIOGRAPHIC TOOLS

In many specialized fields of medicine, and in many allied sciences, there are available a variety of excellent indexes and abstracts, such as *Chemical Abstracts* and *Biological Abstracts.* More than 3,500 titles, with asterisks marking basic references especially useful to the smaller medical library, are listed in *Medical Reference Works, 1679-1966: A Selected Bibliography* (Chicago, Medical Library Association, 1967) and its supplements. Special information centers sponsored by medical institutions or professional societies exist to serve users interested in their respective subject fields. For current information about such additional aids relating to special items, the *Index Medicus* user should consult a local medical librarian.

Users are invited to send suggestions or refer any errors they find to:

Roy Rada, M.D., Ph.D.
Editor, *Index Medicus*
National Library of Medicine
Bethesda, Maryland 20894

# ACCESS TO ARTICLES CITED

Users of *Index Medicus* who wish to consult articles are advised to utilize the following sources:

1. Reprints of articles are frequently available directly from the author or publisher.
2. Medical libraries will often have the material on hand, or know where it can be obtained through interlibrary loan.

# INTERLIBRARY LOAN POLICY

Most of the literature in the collection of the National Library of Medicine (NLM), including that in the History of Medicine Division, is available for loan to any library, with the exception of indexes and abstracts, general library and information science materials, and current trade publications which are presumed to be widely available. Technical reports available from the National Technical Information Service and Government Printing Office publications are generally not loaned. The Library lends only items that fall within the scope and coverage policy governing its collection. The scope of NLM's collection does not include patient or health education materials. Requests for reprints should be directed to the author.

Loans are not made directly to individuals. Requestors who cannot obtain medical literature in their Regions and who cannot come to the National Library of Medicine in person may secure material through the interlibrary loan service by requesting items through their local library. Libraries should send requests directly to NLM only for those titles not held in their Regions. Regional locator tools should be checked to determine locations. The Regional Medical Libraries (RMLs) have established lending procedures for their Regions and have made available regional locator tools. As not all Regions have monograph and audiovisual locator tools, requests for these materials should follow existing Regional patterns. Libraries which are unable to fill requests may forward them to NLM.

Loans requested from NLM must comply with the instructions in this Policy and with the provisions of the National Interlibrary Loan Code of the American Library Association (ALA). Policies regarding fees for service are established by the NLM Director.

## FORMS OF LOANS

- Material will be lent in the original form, as a photocopy, or in microfilm. The form will be determined by NLM.
- Journals and monographic serials generally do not circulate in their original form and photocopies are provided in lieu of lending the original. Photocopies will not exceed fifty pages, in most cases. Certain forms and types of material (congresses) and specific works may be withheld from circulation.
- Literature in the collection printed before 1871 is usually loaned in the form of microfilm or photocopy. These materials are available from the History of Medicine Division.
- Audiovisual titles are available from the Audiovisual Resources Section, Reference Services Division.

## METHOD OF BORROWING

- Requests will be accepted via the following methods: (1) teletypewriter, (2) approved forms of electronic mail, (3) ALA Interlibrary Loan Request Form, typed in triplicate, or (4) DOCLINE®, NLM's automated ILL request system.
- Requests for serial literature should be sent directly to NLM only when the requested material is not available in the requestor's Region. The statement "not available in Region" must appear on the interlibrary loan request. Requests without this statement will be rejected.
- Requests for material to be photocopied, must include the applicable statement of conformance to *either* the U.S. Copyright Law of 1981 (CCL) or Copyright Guidelines (CCG). Requests for loans of audiovisuals must include the CCL statement. To facilitate processing, NLM prefers that requests for loans of originals also carry the statement.
- Requests must include the signature of the authorizing person at the borrowing library (if the form is sent by mail) or the authorizing person's name (if sent by electronic transmission).
- NLM prefers that a requesting library include its LIBID (library identification) on each request, near the library's address. The LIBID is assigned by NLM to facilitate identification of the requesting library and may be obtained by contracting the Circulation and Control Section.
- Each item or item segment (chapter, part of issue, etc.) must be requested separately.
- Advance booking of audiovisuals for a specific date is not possible. Requests are processed as they are received.
- Requests that do not comply with the above procedures may not be accepted.

## INTERLIBRARY LOAN REQUESTS

- Journal citations should include the name of the journal, date of issue, volume, author, title, and full pagination of the article.

- Book citations should include the full name of author, title, edition, publisher, place, and date of publication.
- Audiovisual citations should include the full title, institution or person responsible for the production, and parts of the audiovisual (e.g., slides/audiocassette/guide).
- Citations verified in NLM publications or NLM databases should include NLM call numbers when available. The call number is identified by 02NLM in the databases and recent printed catalogs and 04NLM or DNLM in catalogs printed before January 1983. Do not request Cataloging in Publication titles, identified by a (P) following the call number, or titles withdrawn from NLM's collection, marked WITHDRAWN in the call number.
- Omission of any of the above citation elements could result in an unfilled request.
- Give source of verification whenever possible. If known, state the specific NLM database containing the citation. Do not state "MEDLINE" if the citation was found, for example, in TOXLINE® or CANCERLINE®. If the bibliographic resources have been exhausted, a notation to that effect and summary of sources searched should be furnished. Requests not verifed or which do not contain the notation and summary of sources searched will receive limited searching while verified requests will be searched more thoroughly.
- If a citation cannot be verified, give the bibliographic reference to its source.
- Complete address of the requesting library must appear on each request form.
- It is not possible for NLM to cancel a request once it is received.

## LOAN PERIOD

- The loan period for originial material and microfilm is three weeks, including transit time.
- No renewals are granted.
- Libraries with overdue items may have their borrowing privileges suspended.
- An original volume or audiovisual lent by NLM may be recalled at any time.

## DELIVERY AND RETURNS

- NLM will pay postage for outgoing loans.
- The borrowing library:
  - —will pay postage for the return of borrowed materials;
  - —is responsible for material from time of receipt until returned and received at NLM;
  - —will replace materials lost or irreparably damaged. If materials cannot be replaced, a standard $75 fee will be charged ($150 for audiovisual materials).
- For the protection of the borrowing library, it is suggested that materials be insured or registered and that a return receipt be requested.
- Address all returns to the Circulation and Control Section. Audiovisual materials should be marked "audiovisuals."
- Pack materials properly for return. Protect corners and edges of books well and mail unbound materials flat. Audiovisual materials should not be returned in fiber jiffy bags.

## REQUESTS FROM FOREIGN COUNTRIES

- Interlibrary loan service for photocopies of journal articles will be provided under the same conditions and regulations as for U.S. libraries except for the difference in fee charged (see CHARGES).
- Materials in the original form will not be loaned outside the U.S.

## CHARGES

- U.S. libraries—$5.00 for each filled interlibrary loan in the form of a photocopy or loan of a book, audiovisual, or microfilm.
- Foreign libraries—$7.00 (U.S.) for each filled interlibrary loan in the form of a photocopy.
- Fees include charges for handling and postage.
- Federal libraries—NLM will provide service free of charge if the requesting library has complied with RML policy for routing of interlibrary loan requests. Federal libraries in the Greater Washington Metropolitan area may send requests directly to NLM.
- Do not send payment with the loan request. Invoices will be issued quarterly by the National Technical Information Service (NTIS) 5285 Port Royal Road, Springfield, Virginia 22161 and are payable to NTIS. Libraries are encouraged to establish a deposit account with NTIS to facilitate payment. Coupons are not accepted as payment for these charges.
- Please keep a copy of each loan request form which is stamped with an NLM control number and returned with each item. This number appears on the invoice and is useful in interpreting the invoice charges.

## SPECIAL PHOTOGRAPHIC SERVICES

- Photographs or slides of portraits, halftones, photographs, prints, charts, and other pictorial work: Special procedures are required. Write to the History of Medicine Division for cost estimate.
- Purchase of microfilm or other photocopy of historical collection materials needed for extensive research: Address requests to Chief, History of Medicine Division.
- It is not possible to fill large orders for purposes of building collections.
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| 85-19 | Health Maintenance Organizations. January 1980 through October 1985. 409 citations in English. |
| 85-20 | Acquired immunodeficiency syndrome (AIDS): eighth update. September 1985 through December 1985. 577 citations. |
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| 86-4 | Integrated Approach to the Management of Pain. January 1984 through April 1986. 276 citations in English. |
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A sample Supplementary Chemical Records entry follows:

**pirenzepin**

| | |
|---|---|
| (RN) | 29868-97-1 |
| (SY) | L-S 519 |
| (SY) | gastrozepin |
| (SY) | pirenzepine |
| (SY) | LS 519 |
| (HM) | *BENZODIAZEPINONES |
| (PA) | HISTAMINE H2 RECEPTOR BLOCKADERS |
| (PA) | ANTI-ULCER AGENTS |
| (PA) | GASTROINTESTINAL AGENTS |
| (PA) | PARASYMPATHOLYTICS |
| (NO) | stress ulcer-inhibiting agent; structure |

**pirenzepine** see pirenzepin

The term in the HM field tells the *Index Medicus* user to look for citations on pirenzepin under BENZODIAZEPINONES. The PA field suggests pharmacological action terms under which citations about this chemical may also be found. Synonyms (SY) are cross-referenced in the publication, e.g., gastrozepin see pirenzepin.

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*Although the most specific terms available in MeSH are used in indexing articles for Index Medicus, broader headings are applied for reviews to enable grouping of similar material.*

### ABDOMEN

[Abdominal hypothermia in the treatment of postoperative peritonitis] Tatishvili GG, et al. **Vestn Khir** 1985 Dec; 135(12):139–42 (39 ref.) **(Rus)**

### ABNORMALITIES, MULTIPLE

Trisomy 14 mosaicism in a liveborn male: clinical report and review of the literature. Kaplan LC, et al. **Am J Med Genet** 1986 Apr;23(4):925–30 (17 ref.)

Diagnosis of chromosome 3 duplication q23----qter, deletion p25----pter in a patient with the C (trigonocephaly) syndrome. Preus M, et al. **Am J Med Genet** 1986 Apr; 23(4):935–43 (21 ref.)

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### ACCIDENTS, HOME

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**2-ACETOLACTATE MUTASE** see under **ISOMERASES**

**ACETOLACTATE SYNTHASE** see under **KETOACID-LYASES**

**ACETONCHLOROFORM** see **CHLOROBUTANOL**

## ACETONE

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**ACETONE BODIES** see **KETONE BODIES**

**ACETOPHENETIDIN** see **PHENACETIN**

**ACETOPROMAZINE** see **ACEPROMAZINE**

**ACETOXYACETYLAMINOFLUORENE** see under **2-ACETYLAMINOFLUORENE**

**ACETYL COA ACETYLTRANSFERASE** see under **ACETYLTRANSFERASES**

**ACETYL COA ACYLTRANSFERASE** see under **ACYLTRANSFERASES**

**ACETYL COA CARBOXYLASE** see under **LIGASES**

**ACETYL COA HYDROLASE** see under **THIOLESTER HYDROLASES**

**ACETYL COENZYME A SYNTHETASE** see under **COENZYME A SYNTHETASES**

**ACETYL GLYCERYL ETHER PHOSPHORYLCHOLINE** see **PLATELET ACTIVATING FACTOR**

## 2-ACETYLAMINOFLUORENE

METABOLISM

Mitosis in hepatocytes is generally associated with elevated levels of the target polypeptide of a liver carcinogen. Custer RP, et al. **Differentiation** 1985;30(2):176-81

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Influences of different polychlorinated biphenyls on cytocidal, mitoinhibitory, and nodule-selecting activities of N-2-fluorenylacetamide in rat liver. Hayes MA, et al. **JNCI** 1986 Apr;76(4):683-91

**ACETYLCARNITINE** see under **CARNITINE**

## ACETYLCHOLINE

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**ACETYLCHOLINE RECEPTORS** *see* **RECEPTORS, CHOLINERGIC**

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In vitro insulin effect on acetylcholine esterase of erythrocyte membranes of normal and diabetic rats. Agarwal VR, et al. **Acta Diabetol Lat** 1985 Oct-Dec;22(4):359-63

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Mobilization of hypothalamus acetylcholinesterase from bound to soluble fraction by electrical stimulation of the rabbit sciatic nerve. Romero-Vecchione E, et al. **Acta Cient Venez** 1985;36(2):168-9

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**ACETYLCHOLINESTERASE INHIBITORS** see **CHOLINESTERASE INHIBITORS**

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BLOOD

Measurement of penicillamine and N-acetylcysteine in human blood by high-performance liquid chromatography and electrochemical detection. Drummer OH, et al. **J Chromatogr** 1986 Jan 24;374(2):251-7

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Mercapturic acid formation is an activation and intermediary step in the metabolism of hexachlorobutadiene. Reichert D, et al. **Biochem Pharmacol** 1986 Apr 15;35(8):1271-5

THERAPEUTIC USE

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**ACETYLDIGITOXINS** see under **DIGITOXIN**

**ACETYLDIGOXINS** see under **DIGOXIN**

## ACETYLENE

DIAGNOSTIC USE

Distribution and uptake of helium, carbon monoxide, and acetylene in the lungs during high frequency oscillatory ventilation. MacIntyre NR, et al. **Respir Physiol** 1986 Feb; 63(2):201-12

**ACETYLGALACTOSAMINE** see under **GALACTOSAMINE**

**ACETYLGLUCOSAMINE** see under **GLUCOSAMINE**

**ACETYLGLUCOSAMINIDASE** see under **GLUCOSAMINIDASE**

**N-ACETYLMURAMOYL-L-ALANINE AMIDASE** see under **AMIDOHYDROLASES**

## ACETYLMURAMYL-ALANYL-ISOGLUTAMINE

ANALOGS & DERIVATIVES

Lipophilic muramyl dipeptide-induced changes in electron microscopic morphology and phagocytic function of murine macrophages. Masihi KN, et al. **J Biol Response Mod** 1986 Feb;5(1):20-6

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**N-ACETYLNEURAMINIC ACIDS** see **SIALIC ACIDS**

**ACETYLPROCAINAMIDE** see under **PROCAINAMIDE**

**ACETYLPROMAZINE** see **ACEPROMAZINE**

**ACETYLSALICYLIC ACID** see **ASPIRIN**





**ACETYLSEROTONIN METHYLTRANSFERASE** see under **METHYLTRANSFERASES**

**ACETYLTHIOCHOLINE** see under **CHOLINE**

## ACETYLTRANSFERASES

### ANALYSIS

A new assay for N-hydroxyarylamine O-acetyltransferase: reduction of N-hydroxyarylamines through N-acetoxyarylamines. Saito K, et al. **Anal Biochem** 1986 Feb 1;152(2):226-31

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Effect of acute light exposure upon melatonin content, NAT activity, and nuclear volume in the gerbil pineal complex. Rollag MD, et al. **J Pineal Res** 1984;1(4):339-47

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**ACHALASIA, ESOPHAGEAL** see **ESOPHAGEAL ACHALASIA**

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Influence of isaxonine on the target phenomenon, muscle fibre size and neuromuscular junction in the tenotomized and denervated gastrocnemius muscle of the rat. De Bleecker J, et al. **Acta Neuropathol (Berl)** 1986; 69(3-4):337-40

## ACHLORHYDRIA

### PATHOLOGY

[Histological analysis of the gastric mucosa, enterochromaffin cells and gastrin-producing cells in endoscopic biopsies of patients with achlorhydria] Barbosa AJ, et al.
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## ACHOLEPLASMA LAIDLAWII

### METABOLISM

Selective acylation of membrane proteins in Acholeplasma laidlawii. Nyström S, et al. **Eur J Biochem** 1986 Apr 1; 156(1):85-94

**ACHROMOBACTER** see **ALCALIGENES**

**ACHROMOBACTERIACEAE** see under **GRAM-NEGATIVE AEROBIC BACTERIA**

**ACHYLIA GASTRICA** see **ACHLORHYDRIA**

**ACID ASPIRATION SYNDROME** see **PNEUMONIA, ASPIRATION**

## ACID-BASE EQUILIBRIUM

see related
**ACIDOSIS**
**ALKALOSIS**

The relationship between antepartum fetal heart rate, intrapartum fetal heart rate, and fetal acid-base status. Low JA, et al. **Am J Obstet Gynecol** 1986 Apr;154(4):769-76

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## ACID-BASE IMBALANCE

### ETIOLOGY

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### PHYSIOPATHOLOGY

Effect of blood pH on peripheral and central signals of perceived exertion. Robertson RJ, et al.
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**ACID ETCHING, DENTAL** see under **BONDING, DENTAL**

## ACID PHOSPHATASE

### ANALYSIS

Evaluation of commercial immunoperoxidase kits for prostatic specific antigen and prostatic specific acid phosphatase. Svanholm H.
**Acta Pathol Microbiol Immunol Scand [A]** 1986 Jan; 94(1):7-12

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### BIOSYNTHESIS

Biosynthesis of two developmentally distinct acid phosphatase isozymes in Dictyostelium discoideum. Bennett VD, et al. **J Biol Chem** 1986 Apr 25; 261(12):5355-62

### BLOOD

Diurnal variation of prostatic acid phosphatase (PAP) in urologic patients with nonprostatic disease. el-Shirbiny AM, et al. **Urology** 1986 Apr;27(4):302-5

### GENETICS

Genetic variation of an acid phosphatase (Acp-2) in the laboratory rat: possible homology with mouse AP-1 and human ACP2. Bender K, et al. **Biochem Genet** 1986 Feb; 24(1-2):1-11

### METABOLISM

Acid phosphatase activity in the intestine and caeca of bluegill, exposed to methyl mercuric chloride. Hossain A, et al. **Bull Environ Contam Toxicol** 1986 Mar;36(3):460-7

An evaluation of the immunochemical measurement of prostatic acid phosphatase and prostatic specific antigen in carcinoma of the prostate. Siddall JK, et al.
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The localization of fluoride-resistant acid phosphatase (FRAP) in the pelvic nerves and sacral spinal cord of rats. McMahon SB. **Neurosci Lett** 1986 Mar 14;64(3):305-10

[Acid phosphatase distribution in the liver in cirrhosis] Ryvniak VV. **Biull Eksp Biol Med** 1986 Mar;101(3):363-5 (Eng. Abstr.) **(Rus)**

**ACID SEROMUCOID** see **OROSOMUCOID**

## ACIDOSIS

### BLOOD

Changes in arterial carbon dioxide tension and arterio-venous difference in oxygen content with pH during metabolic acidosis. Langbroek AJ, et al. **Adv Exp Med Biol** 1985; 191:553-63

Glutaric acidemia type II. Phenotypic findings and ultrastructural studies of brain and kidney. Harkin JC, et al. **Arch Pathol Lab Med** 1986 May;110(5):399-401

The role of metabolic acidosis in causing uremic hyperphosphatemia. Barsotti G, et al.
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Severe central nervous system damage and profound acidosis in persons exposed to pentaborane. Yarbrough BE, et al.
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### COMPLICATIONS

Alcoholic ketoacidosis: an underdiagnosed condition? [letter]

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ACYL COA DESATURASES see FATTY ACID DESATURASES

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**ADENOSINE CYCLIC 3',5'-MONOPHOSPHATE** see **ADENOSINE CYCLIC MONOPHOSPHATE**

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**ADENOSINE DIPHOSPHATE SUGARS** see under **NUCLEOSIDE DIPHOSPHATE SUGARS**

**ADENOSINE KINASE** see under **PHOSPHOTRANSFERASES, ATP**

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**ADENOSINE PYROPHOSPHATE** see **ADENOSINE DIPHOSPHATE**

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ADENOVIRUS INFECTIONS, HUMAN see under ADENOVIRUS INFECTIONS

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## ADENOVIRUSES, HUMAN

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COMPLICATIONS

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Malignant peripheral nerve sheath tumor arising in an adrenal ganglioneuroma in an adult male homosexual. Chandrasoma P, et al. **Cancer** 1986 May 15;57(10):2022–5

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Normal fetal adrenal gland location [letter] Co CS, et al. **J Ultrasound Med** 1986 Feb;5(2):117–8

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Adrenal function in paracoccidioidomycosis: a prospective study in patients before and after ketoconazole therapy. Abad A, et al. **Infection** 1986 Jan–Feb;14(1):22–6

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see related
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***VIRILISM***

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Surface expression of neural cell adhesion molecule in cultured bovine paraneurones: immunogold and immunoperoxidase methods compared. Langley OK, et al. **Neurosci Lett** 1986 Feb 28;64(2):151-6

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Release of catecholamines from superfused bovine adrenal chromaffin cells cultured on microcarrier beads. Boarder MR, et al. **J Neurochem** 1986 May;46(5):1473-7

The role of sensory fibres in the rat splanchnic nerve in the regulation of adrenal medullary secretion during stress. Khalil Z, et al. **J Physiol (Lond)** 1986 Jan;370:201-15

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Ultrastructural and cytochemical characterization of adrenal medullary plasma membrane vesicles and their interaction with chromaffin granules. Rosenheck K, et al. **Biochim Biophys Acta** 1986 Apr 14;856(2):373-82

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Blocking effect of naloxone, dihydroergotamine and adrenalectomy in lithium-induced hyperglycaemia and glucose intolerance in the rat. Fontela T, et al. **Acta Endocrinol (Copenh)** 1986 Mar;111(3):342-8

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ADRENALINE see EPINEPHRINE

ADRENERGIC AGENTS see SYMPATHOMIMETICS

## ADRENERGIC ALPHA RECEPTOR AGONISTS

PHARMACODYNAMICS

Effects of alpha-adrenoceptor agonists and antagonists on duodenal surface epithelial HCO3-secretion in the rat in vivo. Nylander O, et al. **Acta Physiol Scand** 1986 Mar; 126(3):433-41

Central and peripheral effects of S 3341 [(N-dicyclopropylmethyl)-amino-2-oxazoline] in animal models. van Zwieten PA, et al. **Arch Int Pharmacodyn Ther** 1986 Jan;279(1):130-49

Altered responsiveness to alpha- and beta-adrenoceptor stimulation in hepatocytes cultured in defined medium. Tsujimoto A, et al. **Biochem Pharmacol** 1986 Apr 15; 35(8):1400-4

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On the stimulation of respiration by alpha-adrenergic agonists in perfused rat liver. Taylor WM, et al. **Eur J Biochem** 1986 Mar 3;155(2):319-22

Somatostatin and alpha 2-adrenergic agonists selectively inhibit vasopressin-induced cyclic AMP accumulation in MDCK cells. Friedlander G, et al. **FEBS Lett** 1986 Mar 17;198(1):38-42

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Alpha-adrenoceptor blocking activity of fenoldopam (SK&F 82526), a selective DA1 agonist. Nakamura S, et al. **J Pharm Pharmacol** 1986 Feb;38(2):113-7

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A comparison of the binding characteristics of the alpha 2-adrenoceptor antagonists 3H-yohimbine and 3H-rauwolscine in bovine tail muscles. Roets E, et al. **Arch Int Pharmacodyn Ther** 1986 Feb;279(2):212-22

Binding characteristics of the selective alpha 2-adrenoceptor antagonist [3H]idazoxan to rat olfactory cortex membranes. McLaughlin NJ, et al. **Eur J Pharmacol** 1986 Feb 11; 121(1):91-6

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Effects of alpha-adrenoceptor agonists and antagonists on duodenal surface epithelial HCO3-secretion in the rat in vivo. Nylander O, et al. **Acta Physiol Scand** 1986 Mar; 126(3):433-41

Chemical modification of essential carboxyl group and histidine residue in the plasma-membrane 5'-nucleotidase. Harb J, et al. **Biochim Biophys Acta** 1986 Mar 28; 870(2):320-6

Effects of alpha and beta adrenergic blockade on hepatic glucose balance before and after oral glucose. Role of insulin and glucagon. Chap Z, et al. **J Clin Invest** 1986 Apr;77(4):1357-69

Interaction between antidepressants and alpha 1-adrenergic receptor antagonists on the binding to alpha 1-acid glycoprotein. Ferry DG, et al. **J Pharm Sci** 1986 Feb; 75(2):146-9

ADRENERGIC ALPHA RECEPTORS see RECEPTORS, ADRENERGIC, ALPHA

## ADRENERGIC BETA RECEPTOR AGONISTS

ADMINISTRATION & DOSAGE

[Comparative evaluation of the status of central hemodynamics after different methods of administration of the beta-adrenomimetic alupent in the treatment of discoordination of labor contractions] Abramchenko VV, et al. **Akush Ginekol (Mosk)** 1986 Jan;(1):47-8 (Eng. Abstr.) **(Rus)**

DIAGNOSTIC USE

Histopathological support of antagonism of allergen-induced mast cell mediator release in human skin by a beta-2-agonist. Grönneberg R, et al. **Allergy** 1986 Jan; 41(1):71-4

METABOLISM

Thermodynamic properties of agonist interactions with the beta adrenergic receptor-coupled adenylate cyclase system. II. Agonist binding to soluble beta adrenergic receptors. Contreras ML, et al. **J Pharmacol Exp Ther** 1986 Apr; 237(1):165-72

Thermodynamic properties of agonist interactions with the beta adrenergic receptor-coupled adenylate cyclase system. I. High- and low-affinity states of agonist binding to membrane-bound beta adrenergic receptors. Contreras ML, et al. **J Pharmacol Exp Ther** 1986 Apr;237(1):154-64

[Effect of pH changes on the binding of agonists and antagonists to the adrenergic beta receptor] Gende OA, et al. **Acta Physiol Pharmacol Latinoam** 1985;35(2):205-16 (Eng. Abstr.) **(Spa)**

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Iloprost (ZK 36374) modulates the responses to beta-adrenoceptor agonists in guinea-pig airways and pulmonary vasculature. Türker RK, et al. **Arch Int Physiol Biochim** 1985 Nov;93(4):263-9

Altered responsiveness to alpha- and beta-adrenoceptor stimulation in hepatocytes cultured in defined medium. Tsujimoto A, et al. **Biochem Pharmacol** 1986 Apr 15; 35(8):1400-4

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see related
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Computerized rhinomanometry: a new method for the clinical exploration of the nasal respiratory function. Cervera G, et al. Arch Invest Med (Mex) 1985 Jul-Sep; 16(3):275-81 (Eng, Spa)

## AJMALINE

### ANALOGS & DERIVATIVES

Comparative antiarrhythmic efficacy of verapamil, 17-monochloracetylajmaline, mexiletine and amiodarone in patients with severe chagasic myocarditis: relation with the underlying arrhythmogenic mechanisms. Haedo AH, et al. J Am Coll Cardiol 1986 May;7(5):1114-20

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AKINETIC PETIT MAL see EPILEPSY, PETIT MAL

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ALAMETHICIN see under ANTIBIOTICS

## ALANINE

Backbone dynamics of a model membrane protein: 13C NMR spectroscopy of alanine methyl groups in detergent-solubilized M13 coat protein. Henry GD, et al. Biochemistry 1986 Feb 11;25(3):590-8

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Inactivation of glucosamine-6-phosphate synthetase from Salmonella typhimurium LT2 by fumaroyl diaminopropanoic acid derivatives, a novel group of glutamine analogs. Chmara H, et al. Biochim Biophys Acta 1986 Mar 28;870(2):357-66

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## ALANINE AMINOTRANSFERASE

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## ALBINISM

see related CHEDIAK-HIGASHI SYNDROME

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Retinal vascular and optic nerve abnormalities in albinism. Spedick MJ, et al. J Pediatr Ophthalmol Strabismol Mar-Apr;23(2):58-63

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ALBERS-SCHOENBERG DISEASE see OSTEOPETROSIS

## ALBINISM

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**ALLERGIC CONJUNCTIVITIS** see **CONJUNCTIVITIS, ALLERGIC**

**ALLERGIC CUTANEOUS ANGIITIS** see **VASCULITIS, ALLERGIC CUTANEOUS**

**ALLERGIC CUTANEOUS VASCULITIS** see **VASCULITIS, ALLERGIC CUTANEOUS**

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**ALLOBARBITAL** see under **BARBITURATES**

**ALLOGRAFT** see **TRANSPLANTATION, HOMOLOGOUS**

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**ALOE** see under **PLANTS, MEDICINAL**

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**ALOPECIA MUCINOSA** see under **ALOPECIA**

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**ALPHA 1-ACID SEROMUCOID** see **OROSOMUCOID**

**ALPHA ACTININ** see **ACTININ**

**ALPHA 2-ACUTE PHASE GLOBULINS** see **ALPHA MACROGLOBULINS**

**ALPHA ADRENERGIC RECEPTOR AGONISTS** see **ADRENERGIC ALPHA RECEPTOR AGONISTS**

**ALPHA ADRENERGIC RECEPTOR BLOCKADERS** see **ADRENERGIC ALPHA RECEPTOR BLOCKADERS**

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**ALPHA-GLUCOSIDASES** see under **GLUCOSIDASES**

**ALPHA-HEPARIN** see **HEPARIN**

**ALPHA-HYPOPHAMINE** see **OXYTOCIN**

**ALPHA LIPOPROTEINS** see **LIPOPROTEINS, HDL**

**ALPHA MACROFETOPROTEINS** see **ALPHA MACROGLOBULINS**

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## AMINO ACID ACTIVATION

see related
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**AMINO ACIDS, SECONDARY** see **IMINO ACIDS**

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**AMINOACETIC ACID** see **GLYCINE**

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Identification of the active species in deoxyribonucleic acid breakage induced by 4'-(9-acridinylamino)methanesulfon-m-anisidide and copper. Wong A, et al. **Biochem Pharmacol** 1986 Apr 1; 35(7):1071-8

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**P-AMINOBENZOIC ACID** see under **AMINOBENZOIC ACIDS**

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METABOLISM

Digestion of bentiromide and absorption of xylose in healthy cats and absorption of xylose in cats with infiltrative intestinal disease. Hawkins EC, et al. **Am J Vet Res** 1986 Mar;47(3):567-9

**O-AMINOBENZOIC ACIDS** see **ANTHRANILIC ACIDS**

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**4-AMINOBUTYRIC ACID** see **GABA**

## AMINOBUTYRIC ACIDS

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**6-AMINOCAPROIC ACID** see under **AMINOCAPROIC ACIDS**

## AMINOCAPROIC ACIDS

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**AMINOETHANOLS** see **ETHANOLAMINES**

**AMINOETHYLISOTHIURONIUM BROMIDE HYDROBROMIDE** see **AET**

**AMINOETHYLPHOSPHONIC ACID** see under **ORGANOPHOSPHORUS COMPOUNDS**

**AMINOFORM** see **METHENAMINE**

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ADMINISTRATION & DOSAGE

Experimental combined hormone therapy on human breast carcinomas serially transplanted into nude mice. Fukutomi T, et al. **Jpn J Cancer Res** 1986 Jan;77(1):92-7

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Changes in resistance to aminoglycoside antibiotics of different bacterial strains isolated during the period 1978 to 1983. Netilmicin as alternative therapy. Bovelacci A, et al. **Chemioterapia** 1985 Dec;4(6):439–44

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**P-AMINOHIPPURIC ACID** see under **AMINOHIPPURIC ACIDS**

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**AMINOIMIDAZOLE CARBOXAMIDE** see under **IMIDAZOLES**

## AMINOISOBUTYRIC ACIDS

METABOLISM

Stimulation of amino acid uptake and Na+,K+-ATPase activity by norepinephrine in superior cervical sympathetic ganglia excised from adult rats. Ando M, et al. **J Neurochem** 1986 May;46(5):1487–92

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**AMINOLEVULINATE HYDRO-LYASE** see **AMINOLEVULINIC ACID DEHYDRATASE**

**AMINOLEVULINIC ACID** see under **LEVULINIC ACIDS**

## AMINOLEVULINIC ACID DEHYDRATASE

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A low molecular weight lead-binding protein in brain attenuates lead inhibition of delta-aminolevulinic acid dehydratase: comparison with a renal lead-binding protein. Goering PL, et al. **J Pharmacol Exp Ther** 1986 Apr; 237(1):220–5

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Measurement of 5-aminolevulinic acid synthase activity in whole and fractionated human bone marrow: effect of myeloid cell lysis by monoclonal antibody. Fitzsimons EJ, et al. **Anal Biochem** 1986 Feb 15;153(1):9–17

**6-AMINONICOTINAMIDE** see under **NICOTINAMIDE**

**AMINOOXYACETIC ACID** see under **ACETIC ACIDS**

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ANALYSIS

Occurrence of an ascamycin dealanylating enzyme, Xc-aminopeptidase, in mammalian cell membranes and susceptibility to ascamycin. Osada H, et al. **J Antibiot (Tokyo)** 1986 Feb;39(2):286–93

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**AMINOPHENAZONE** see **AMINOPYRINE**

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ADVERSE EFFECTS

Aminophylline and gentamicin-2. Keniston RC. **Am J Clin Nutr** 1986 Apr;43(4):636–8

DIAGNOSTIC USE

[Alcohol-euphyllin test meal for studying gastric secretion] Kotovoĭ OL. **Lab Delo** 1986;(3):136–8 (Eng. Abstr.) **(Rus)**

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Rapid estimation of total body clearance of theophylline in patients receiving intravenous aminophylline infusion. Lau AH, et al. **Int J Clin Pharmacol Ther Toxicol** 1986 Jan; 24(1):12–5

PHARMACODYNAMICS

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**AMINOPROPANOLS** see **PROPANOLAMINES**

**3-AMINOPROPIONIC ACID** see under **ALANINE**

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METABOLISM

Hydroxylation of 4-amino-antifolates by partially purified aldehyde oxidase from rabbit liver. Fabre G, et al. **Biochem Pharmacol** 1986 Apr 15;35(8):1325–30

**2-AMINOPURINE** see under **ADENINE**

## AMINOPYRIDINES

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[3H]mepyramine binding to histamine H1 receptors in bovine retina. Arbonés L, et al. **Biochem Biophys Res Commun** 1986 Mar 13;135(2):445–50

PHARMACODYNAMICS

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4-Aminopyridine and dendrotoxin induce repetitive firing in rat visceral sensory neurones by blocking a slowly inactivating outward current. Stansfeld CE, et al. **Neurosci Lett** 1986 Mar 14;64(3):299–304

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## AMINOPYRINE

ANALOGS & DERIVATIVES

Inhibitory action of dipyrone on rat thyroid peroxidase and lactoperoxidase activities. Varela V, et al. **Acta Physiol Pharmacol Latinoam** 1985;35(2):259–66

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AMYGDALA see AMYGDALOID BODY

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AMYLOID PROTEIN SAA see under AMYLOID

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**AMYOPLASIA CONGENITA** see **ARTHROGRYPOSIS**

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**ANAL SPHINCTER** see **ANUS**

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### DIAGNOSIS

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### PHARMACODYNAMICS

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Prescribing practices for pain in
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Long-term use of narcotic/antide

The inclinations of the upper ends of the lead and bituminous pipes is 1·746, slightly greater than mine: but in the cases of the glass pipes and the cast-iron pipes the slopes are 1·82 and 1·92 respectively.

So much appeared from the logarithmic homologues themselves, but the most important question was, would the curves agree with the results calculated from the formula

$$A\frac{D^3}{P^2}i=\left(B\frac{D}{P}v\right)^n?$$

41. *Comparison with the law of resistance.* In applying this test I was at first somewhat at a loss on account in some cases of the want of any record of the temperature, and the doubt as to such temperatures as had been recorded being the temperature of the water in the pipes between the gauges.

The dates at which the experiments were made to a certain extent supplied the deficiency of temperature, the temperatures given fixing the law of temperature, so that the probable temperature could be assumed where it was not given.

Assuming the temperature, the values of

$$i_0=\frac{P^2}{AD^3},$$

$$v_0=\frac{P}{BD}.$$

were calculated for each tube, using the values of $A$ and $B$ as already determined, $\log i_0$ and $v_0$ are the co-ordinates of $O$ the intersection of the two straight branches of the logarithmic curves, so that the application of the formula to the results was simply tested by continuing the straight upper branches of the logarithmic homologues to see whether they passed through the corresponding point $O$.

The agreement, which is shown in diagram 3, page 100, is remarkable. There are some discrepancies, but nothing which may not be explained by inaccuracies, particularly inaccuracies of temperature.

42. *The effect of the temperature above the critical point.*—It is a fact of striking significance, physical as well as practical, that while the temperature of the fluid has such an effect at the lower velocities that, *ceteris paribus*, the discharge will be double at 45° C. what it is at 5° C., so little is the effect at the higher velocities that neither Darcy nor any other experimenter seems to have perceived any effect at all.

In my experiments the temperature was constant, 5° C. at the higher velocities, so that I had no cause to raise this point till I came to Darcy's

temperatures were, I noticed the effect of the temperature is to shift the curves 2 horizontal to 1 vertical, which corresponds with a slope of 2 to 1, and so nearly corresponds with the direction of the curves at higher velocities that variations of 5° or 10° C. produce no sensible effect; or, in other words, the law of resistance at the higher velocity is sensibly independent of the temperature, *i.e.*, of the viscosity.

Thus not only does the critical velocity at which eddies come in, diminish with the viscosity, but the resistance after the eddies are established is nearly, if not quite, independent of the viscosity.

43. *The inclinations of the logarithmic curves.*—Although the general agreement of the logarithmic homologues completely establishes the relations between the diameters of the pipes, the pressures, and velocities, for each of the four classes of pipes tried, viz., the lead, the varnished pipes, the glass pipes, and the cast-iron, there are certain differences in the laws connecting the pressures and velocity in the pipes of different material. In the logarithmic curves this is very clearly shown as a slight but definite difference between the inclination of the logarithmic homologues for the higher velocities.

The variety of the pipes tried reduces the possible causes of this difference to a small compass. It cannot be due to any difference in diameters, as at least three pipes of widely different diameters belong to each slope. It is not due to temperature. This reduces the cause for the different values of $n$ to the irregularity in the pipes owing to joints and other causes, and the nature of the surfaces.

The effect of the joints on the values of $n$ seems to be proved by the fact that Darcy's three lead pipes gave slightly different values for $n$, while my two pipes without joints gave exactly the same value, which is slightly less than that obtained from Darcy's experiments.

Darcy's pipes were all of them uneven between the gauge points, the glass and the iron varying as much as 20 per cent. in section. The lead were by far the most uniform, so that it is not impossible that the differences in the values of $n$ may be due to this unevenness.

But the number of joints and unevenness of the tarred pipes corresponded very nearly with the new cast-iron, and between these there is a very decided difference in the value of $n$. This must be attributed to the roughness of the cast-iron surface.

### 44. *Description of Diagram* 3.

Diagram 3.—In this diagram the experiments of Poiseuille and Darcy

In consequence of the number of lines, the general aspect of the diagram is somewhat confused, but such confusion vanishes so soon as it is clearly perceived that each line of dots indicates the logarithmic homologue for some particular pipe as determined by experiment, reduced and plotted in exactly the same manner as for diagram 2, page 94: *DD* and *EE* being exact repetitions of the logarithmic homologue for pipes 4 and 5, on a somewhat smaller scale.

It is at once apparent from diagram 3 how, for the most part, the experiments have been well below or well above the critical values. In the small pipes of Poiseuille the velocities were below the critical values, and hence lie in straight lines inclined at 45°.

The smallest pipe on which Poiseuille experimented had a diameter of 0·014 millim.: only one experiment, marked *A*, is shown in the diagram, as the remaining three extended outside the range of the plate. They fall exactly on the dotted line through *A*, and do not reach the critical value.

The same is true of all the rest of Poiseuille's experiments, except those made on a much larger pipe, diameter 0·65 millim., hence it is thought sufficient to plot only one, namely *BB*.

*CC* shows the experimental results obtained with the pipe 0·65 millim. diameter, and these reach the critical value as given by the formula, and then diverge from the line.

It is important to notice, however, that the points are not taken directly from Poiseuille's experiments, which have been subjected to a correction rendered necessary by the fact that Poiseuille did not measure the resistance by ascertaining the pressure at two points in the pipe, but by ascertaining the pressure in the vessels from which and into which the water flowed through the pipe, so that his resistance includes, besides the resistance of the pipe, the pressure necessary to impart the initial velocity to the water. This fact, which appears to have been entirely overlooked, had a very important influence on many of Poiseuille's results. Poiseuille endeavoured to ascertain what was the limit to the application of his law, and, with the exception of his smallest tubes, succeeded in attaining velocities at which the results were no longer in accordance with his law.

When I first examined his experiments I expected to find these limiting velocities above the critical velocities as given by my formula. In all cases, however, they were very much below, and it was then I came to see that Poiseuille had taken no account of the pressure necessary to start the fluid.

It then became interesting to see how far the deviations were to be explained in this way.

In pipes of sensible size the pressure necessary to start the fluid lies between

$$\frac{v^2}{2g} \text{ and } 1{\cdot}505\,\frac{v^2}{2g},$$

according to whether the mouthpiece is trumpet-shaped or cylindrical. Poiseuille states that he was careful to keep both ends of his pipe cylindrical, hence according to the law mouthpieces of sensible size, the pressures which he gives should be corrected by $1{\cdot}505\,\frac{v^2}{2g}$.

This correction was made, and it was then found that with all the smaller tubes Poiseuille's law held throughout his experiments, and with the larger pipe it held up to the critical value and then diverged in exact accordance with my formula, as shown by the line *CC*.

Darcy's experiments in the case of three tubes *F*, *G*, *I*, fall below the critical value, and in all these cases agree very well with the theoretical curve as regards both branches.

This, however, must be looked upon as accidental, as at the lower velocities Darcy had clearly reached the limit of sensitiveness of his pressure gauges; thus, for instance, the experiment close by the letter *F* is the mean of two readings which are respectively 7 and 15; there is a tendency throughout the entire experiments to irregularity in the lower readings, which may be attributed to the same cause, and this seems to explain the somewhat common deviation of the one or two lower experiments from the line given by the middle dots.

A somewhat similar cause will explain cases of deviation in the one or two upper experiments, for the discrepancy in the two gauges here again becomes considerable.

For these reasons the intermediate experiments were chiefly considered in determining the slopes of the theoretical lines.

These slopes were obtained as the mean of each class of tubes:—

| | |
|---|---|
| Lead jointed | 1·79 |
| Varnished | 1·82 |
| Glass | 1·79 |
| New cast-iron | 1·88 |
| Incrusted pipe | 2· |

points $O$ having been determined by the formulæ :

$$\text{Log } i_0 = 2 \log P - 3 \log D - 7{\cdot}851$$

$$\text{Log } v_0 = \quad \log P - \quad \log D - 2{\cdot}598$$

the lines having the respective slopes were drawn through these points, and in all cases agreed closely with the experiments.

In the cases where the temperature was not given, the values of log $i_0$ and log $v_0$ were calculated for 5° C., these are shown along the line marked "line of intersections at 5°," through these points lines are shown drawn at an inclination of 2 to 1, which are the lines on which $O$ would lie whatever might be the temperature. These with the respective slope lines were drawn so as most nearly to agree with the experiments, these intersect the lines at 2 to 1 in the points $O$ which indicate the temperatures, and considering the extremely small effect of the temperature these are all very probable temperatures with the exception of $G$, $H$, and $S$, in which cases $O$ is above the line for 5° C. This indicates strongly that in these cases there must have been a small error, 2 or 3 per cent., in determining the effective diameter of the pipes.

It seemed very probable that roughness in the pipes, such as might arise from incrustation or badly formed joints, would affect the logarithmic homologues, and for this reason only the smoother classes of pipes were treated; but with a view to test this idea, the homologues $Q$ and $R$, which related to the same incrusted pipe before and after being cleaned were drawn, and their agreement is such as to show that for such pipe the effect of incrustation is confined to the effect on the diameter of the pipe, and on the value of $n$ which it raises to 2. This, however, was a large pipe, and the velocities a long way above the critical velocity, so that it is quite possible that the same incrustation in a smaller pipe would have produced a somewhat different effect.

The general result of this diagram is to show that throughout the entire range—from pipes of 0·"000014 to 0·"5 in diameter, and from slopes of pressure ranging from 1 to 700,000—there is not a difference of more than 10 per cent. in the experimental and calculated velocities, and, with very few exceptions, the agreement is within 2 or 3 per cent., and it does not appear that there is any systematic deviation whatever.

# 45.

## THE TRANSMISSION OF ENERGY.

"Cantor Lectures delivered before the Society of Arts in 1883."

### I.

(*Delivered* April 23, 1883.)

SOME few days ago, during a conversation with a friend, I remarked that was going to give some lectures at the Society of Arts upon the trans-ission of energy, whereupon my friend inquired, "Is that the transmission energy by electricity?" To this I replied, "No." The fact is that we ave heard so much about electricity that I began to think it was time to call attention to the fact that there are other means of performing echanical operations.

I am not sure whether, during the various lectures which have been given this room on electricity, the actual term, transmission of energy, has been sed. But whether it has or not, some of the leading ideas connected with have been before you.

I think it may be said that the great interest which the public has mani-sted in the recent advance in the arts relating to electricity has arisen, in large measure, from the cry of joy with which Faure's battery was received. cry which said, in so many words, "Here we have at last a means of tilising our waterfalls and natural sources of power in a way that may lieve us of all the anxiety about our coal-fields." To those who had studied ie subject it was evident at the time that this cry was premature. And some of us, at all events, it seems to be a mistake to encourage false opes, or, rather, knowingly to base hopes on a false foundation, to hold out s a means of replacing our coal what was, in all probability, only another

means of increasing its rate of consumption, for every step in art which facilitates the application of power must increase the demand on the acting sources.

But this is not all; the exaggerated claim set up for electricity, diverted, for a time at all events, attention from the true claim, which would have been sufficient in itself had it not thus been put out of sight. It is not our object at present to save our coal, but to turn it to the best advantage, to get the greatest result we can, and if Faure's battery or any subsequent advance in this direction conduces to this, it is no small matter. Now, during the last ten or fifteen years an entirely new aspect has been given to mechanics by the general recognition of the physical entity which we call energy, in different forms.

We recognise the one thing under different forms in the raised hammer, the bent spring, the compressed air, the moving shot, the charged jar, the hot water in the boiler, and the separate existence of coal, corn, or metals, and oxygen. We see in the revolution of the shafts and the travel of belts in our mills, the passage of water, steam, and air along pipes, the conveyance of coal, corn, and metals, and the electric currents, the transmission of this same thing—energy—from one place to another; and in all mechanical actions we perceive but the change of form of the same thing.

Taking this general or energy point of view we may get rid of all the complication arising from special purpose, and recognise nothing but the form of energy in its source, the distance it has to be transmitted, and the special form that must be given to it for its application. And this view, although not the best in which to study the special purpose of mechanics or contrivances, is of great importance, inasmuch as it has revealed many general laws, and many fundamental limits to the possibilities of extension in certain directions.

My object in these lectures is to direct your attention to some of the leading mechanical facts and limits revealed by this view.

There is one general remark I would wish to make, by way of caution. I hope nothing I may say will be interpreted by any of my hearers into a prediction as to what may happen in the future. I have to deal with facts, and I shall try to deal with nothing but facts. Many of these facts, or the conclusions to be immediately drawn from them, may appear to bear on the possibilities—or, rather, the impossibilities—of art. But in the Society of Arts I need not point out that art knows no limit; where one way is found to be closed, it is the function of art to find another. Science teaches us the results that will follow from a known condition of things; but there is

predict. You must have heard of the statement in 1837, that a steam voyage across the Atlantic was a physical impossibility, which was said to have been made by Dr Lardner. What Dr Lardner really stated, according to his own showing, was that such a voyage exceeded the then present limits of steam-power. In this he was within the mark, as anyone would be if he were to say now that conversation between England and America exceeded the limit of the power of the telephone. But to use such an argument against a proposed enterprise, is to ignore the development of art to which such an enterprise may lead.

I wish to do nothing of this kind, and if, in following my subject, I have to point out circumstances which limit the possibilities of present art, and even seek to define the limits thus imposed, it is in the hope of concentrating the efforts of art into what may be possible directions, by pointing out the whereabouts of such barriers as science shows to be impassable.

Although the terms energy and power are in continual, we might almost say familiar, use, such use is seldom in strict accordance with their scientific meaning. In many ways the conception of energy has been rendered popular, but a clear idea of the relation of energy to power is difficult. This arises from the extreme generality of the terms; in any particular case the distinction is easy. I was going to say that it is easiest to express this distinction by an analogy, but, as a matter of fact, everything that seems analogous is really an instance of energy. Power may be considered to be directed energy; and we may liken many forms of energy to an excited mob, while the directed forms are likened to a disciplined army. Energy in the form of heat is in the mob form; while energy in the form of a bent spring, or a raised weight, matter moving in one direction, or of electricity, is in the army form. In the one case we can bring the whole effect to bear in any direction, while in the other case we can only bring a certain portion to bear, depending on its concentration. Out of energy in the mob form we may extract a certain portion, depending on its intensity and surrounding circumstances, and it is only this portion which is available for mechanical operations.

Now energy in what we may call its natural sources has both these forms. All heat is in the mob form, hence all the energy of chemical separation, which can only be developed by combustion, is in the mob form; and this includes the energy stored in the medium of coal. The combustion of 1 lb. of coal yields from ten to twelve million foot-pounds of energy in the mob form of heat; under no circumstances existing at present can all this be directed, nor have we a right, as is often done, to call this the power of coal. What the exact possible power is we do not know, but probably

of energy per pound of coal is the extreme limit it can yield under the present conditions of temperature at the earth's surface. But before this energy becomes power, it must be directed. This direction is at present performed by the steam-engine, which is the best instrument art has yet devised, but the efficiency of which is limited by the fact that before the very intense mob energy of the fire is at all directed, it has to be allowed to pass into the less intense mob energy of hot water or steam. The relative intensities of these energies are something like twenty-five to nine. The very first operation of the steam-engine is to diminish the directable portion of the energy of the pound of coal from nine million to three millions. In addition to this there are necessary wastes of directable energy, and a considerable expenditure of already directed energy in the necessary mechanical operations. The result is that, as the limit, in the very highest class engines the pound of coal yields about one and a-half millions of foot-pounds; in what are called "first-class engines," such as the compound engines on steamboats, the pound of coal yields one million, and in the majority of engines, about five or six hundred thousand foot-pounds. These quantities have been largely increased during the last few years; as far as science can predict, they are open to a further increase. In the steam-engine art is limited to its three million foot-pounds per pound of coal: but gas-engines have already made a new departure, and there seems no reason why art should stop short of a large portion of the nine millions.

Other important natural sources of mechanical powers are energy in an already directed or army form, wind and water power. Here the power needs no development, but merely transmission and adaptation, and hence it has one important advantage over the energy of chemical separation. These have both been, and are, good servants to man. But there appears to be what are greater drawbacks—in the irregularity of these forces as regards time, and the distribution as regards space.

The application of the power of the wind to the propulsion of ships has, doubtless, influenced the economy of the world more than any other mechanical feat; and, not very long ago, water-power played no relatively unimportant part of the work of the world. But it would seem that both these have had their day, and are now relegated to work of a secondary kind. Some further development of art might however bring them to a foremost place again, by developing their use to a hitherto unprecedented extent. Hitherto both wind and water have only had a local application—that is to say, they were used where and when they were wanted. Wind was only used in the sailing of ships on voyages, and for mills, distributed so as to be within range of such corn as was too far from water: while water-power, though very valuable to a certain limited extent, when near habitable

by far the larger sources of this power—the larger rivers and waterfalls, the tidal estuaries, and last, but not least, the waves of the sea, a source which has never been utilised for good. A modern idea is, that it needs nothing but a possible development of art to render these larger sources not only available for power in their immediate neighbourhood, but available to supply power wherever it is wanted, and so displace the coal, or replace the power as coal becomes exhausted. The desirability of such a result fully explains the entertainment of the pleasant idea; but, unfortunately, when we come to look closer into the question, the probability of its accomplishment diminishes rapidly. Many of the considerations of which I shall have to speak bear directly on this question; so that I shall now defer its further consideration, merely pointing out that, to accomplish this result, the power must not only be extracted from the water on the spot and at the same time, but it must be transmitted over hundreds or thousands of miles, and must be stored till it is wanted.

It may well be thought that energy in a directed form, or in the army form, may be better transmitted than in the undirected or mob form. As a matter of fact, however, energy has never been and never can be transmitted as mechanical power in large quantities, over more than trifling distances, say, as a limit, twenty or thirty miles. I say never can, because such transmission depends on the strength of material; and unless there is some other material on the earth of which we know nothing, we know the limit of this. This is a part of my subject into which I shall enter more closely in my second and third lectures.

In deprecating the idea that wind and water will ever largely supply the place of coal, I do not for a moment wish it to be thought that I take a gloomy view of the mechanical future of the earth. This, I believe, admits of immense development, and will not for long depend, as it does at present, on the adjacency of coal-fields. This will be explained as I proceed.

It must not be forgotten that, after all, the most important source of energy is not coal, but corn and vegetable matter. The power developed in the labour of animals exceeds the power derived from all other sources, including coal, in the ratio of, probably, 20 or 30 to 1; so that, after all, if we could find the means of employing such power for the purposes for which coal is specially employed—such as driving our ships, and working our locomotives—an increase of 10 per cent. in the agricultural yield of the earth would supply the place of all the coal burnt in engines. The energy which may be derived from the oxidisation of corn has as yet only been artificially developed in the form of heat, and this may be the only possible way; but physiology has not yet advanced to the point of explaining the

of the blood; and it is at all events an open question whether the energy of corn may not be really a form of directed energy, in which case corn would yield six or eight times as much energy as coal does at present, consumed in our engines. As consumed in animals, it yields a larger proportion of energy—two or three times as much, and may be more—whereas by burning it in steam-engines, we cannot get half as much. Should we find an artificial means of developing anything like the full directable power of corn—a problem which has not yet been attempted—coal would no longer be necessary for power. I do not mention this as a prediction, but as showing that there are, besides wind and water, other, and as yet untried, directions from which mechanical energy may be derived in the future.

Electricity is not a natural source of energy, for the simple reason that the metals have mostly been burnt or oxidised during the past history of the earth. But still it is important, at this stage of my lecture, to point out that the energy consequent on the separate existence of metals and oxygen can be developed without combustion, in a totally directed form, *i.e.*, totally available for power.

There are many peculiarities which distinguish the group of elementary substances we call metals, but there is no more distinctive feature than this. This is not a primary source of power, but. as it at present appears, it promises to become the most important secondary source. We cannot find metals existing in a separate form but by the use of power; where and when it exists, we can separate them from the salts, and so store the energy in a form completely available for power. The economical questions relating to such storage of energy will be considered in their place later in the course.

It is not, however, only as effecting storage of power that electricity demands our attention, it also affords a means of transmitting power, which has long held an important place in art, and to which all eyes have been recently turned in expectation of something new and startling.

Before considering the developments of art, and the circumstances on which their further development depends, I shall turn, for a moment, to the processes of nature. The mechanics of the universe, no less than those relating to human art, depend on the transmission of energy. In nature energy is transmitted in all its forms and under all circumstances, both those which we can imitate in art, and those we can not.

The most important point with regard to the artificial transmission of energy is the proportion of power spent in effecting the transmission, and the circumstances on which this proportionate loss depends. Is such loss universal? So far as we know, it is attendant in a greater or less degree on

nature on the surface of the earth. If it were not, this earth would be no place to live upon. No motion would ever cease. As it is, the winds and waters are rapidly brought to rest by the friction which they encounter. Currents of wind and currents of water form the principal means by which energy is transmitted over the surface of the earth. But there are other means which experience less resistance. Oscillatory waves, those of sound, are a very efficient means of transmitting energy. Sounds are not transmitted to an unlimited distance, chiefly because by the spreading of the wave the sound becomes weaker and weaker as it proceeds. It is also destroyed by the friction of the solid surface of the earth. Hence the sounds which reach us from bodies high up, as the explosion of a meteor, are heard much further than such sounds made at the surface of the earth, although there are two records of artillery having been heard two hundred miles. Owing to such incidental destruction of sound we cannot say from experience that sound waves in air are destroyed, but from the physical properties of gases we know they are.

Waves on the sea are another very efficient means of transmitting power, a means which may be called nature's mill. The waves which take up the energy or power from the wind in mid ocean travel onwards, carrying this energy, and experience such slight resistance that they will, after travelling hundreds or thousands of miles, destroy the shores on which they expend the last of their energy. If we could find a means of utilising the energy of waves, we should not only save our coal, but also save our country from the waves; still, water waves experience resistance which we can better estimate theoretically than practically.

These are the principal ways in which energy is transmitted from one part of the earth to another. There are others, such as earthquakes, but they all show the same thing, that power is spent in the transmission of energy.

If we look away into interstellar space, the case is altered. Here we see two ways in which energy is transmitted—heat, or light, and the motion of the heavenly bodies. In neither of these can we see any direct evidence of resistance or loss of power; and, as judged by any terrestrial measure, there certainly is none. The distance at which we see stars is a sufficient proof of the freedom with which a wave of light travels; while the regularity of the motion of the planetary bodies shows that they encounter no sensible resistance. Yet, although not directly perceivable, there are circumstances that strongly suggest that in both these forms, transmission of energy is resisted. If space is unlimited, and there are stars throughout it, why do not we see them at greater distances than we do? Under these circum-

great distance there was not a star, so that, if the light were not stopped, the whole heavens would be one fiery envelope as bright as the sun. This is a question which philosophers have not decided. But one, and the favourite, way out of the difficulty, is to suppose that the light does encounter resistance, even in interstellar space. This is a subject on which your Chairman of Council has boldly launched: and whether his hypothesis be right or wrong, it has brought to the front a very interesting subject.

With regard to the resistance encountered by the planetary bodies, our evidence is even slighter. A few domesticated comets seem to diminish their speed; and it is not so long since we were all on the *qui vive*, by the promise of the spectacle of an old friend, who seemed to have come earlier than he was expected, on purpose to verify a prediction of plunging into the sun, but instead of doing so he passed away and was pronounced a stranger, to the joy of the nervous, but somewhat to the discomfiture of astronomers.

The energy which we derive from the sun comes to us in the form of sunshine, in a highly directed but extremely scattered form, being uniformly distributed all over the illuminated disc of the earth. It reaches the outer atmosphere nearly in the same condition as it left the sun, having traversed ninety odd millions of miles without any sensible expenditure of power. In the twenty or thirty miles of the lower atmosphere, however, it encounters very great, but variable, resistance. Sometimes half of it, or three-quarters of it, may reach the earth's surface. This is rare in our country, and on the average not more than a very small fraction ever reaches the surface.

When the sun does shine, the sunshine is a form of energy which may be, and is, very largely directed so as to yield power. Any such direction which may be accomplished by human art is undertaken at an enormous disadvantage, on account of the scattered manner in which the energy reaches us. The sunshine must be collected before we can make any mechanical use of it.

In the abstract, there are two methods. The one would be to accumulate the energy of sunshine on a given place, over a long time. This is nature's method. The energy on each portion of the earth's surface, during days, weeks, the whole year, or many years, is accumulated by the growth of vegetables. Corresponding to this, however, art has as yet developed no means whatever. If we don't use the sunshine as it falls, energy is lost for all mechanical purposes. I say if we don't, not that we do use it, but because we can, and have done so in a small way.

place may be concentrated on to a smaller space, and so be sufficient to perform some mechanical operation. In this way small vapour engines have been worked by sunshine. But the cost of the apparatus necessary for such concentration is out of all proportion to the result accomplished, and shows the art difficulties must be got over by a new departure. There is the further consideration that sunshine on land is too valuable for the maintenance of vital energy to allow of its being devoted to mechanical purposes.

As regards the perfectness of nature's method, so far as I know, no attempts have even been made to test this. It is probably very wasteful, as are all nature's methods, but it is effective. In the first instance, the energy of sunshine is stored on the spot where it falls, in the tissues, but chiefly in the sap of the grass and vegetation. If this is not removed, a large portion of the energy of the year's growth, that which is in the sap, is stored in the seed, and the rest, although apparently again scattered on the decay of the tissues, is to some extent preserved in the ground, and either forwards the next year's crop, or takes the permanent form of peat; and our coal-fields are but evidence of the way in which the directable energy of sunshine has been stored under circumstances where there was no immediate purpose for which to apply it. Under present circumstances, however, this energy is almost everywhere too valuable to admit of secular storage.

It is either removed directly by nature's method, the teeth of animals, or allowed to accumulate for a longer period, and then removed by human industry. The further aggregation of this energy involves the transmission of energy in a mechanical sense, and hence involves the expenditure of power. Nature works by means of directly converting this energy into power. The plant accumulates the energy of sunshine, the animal collects and appropriates this energy. This collection is accomplished by the expenditure of power, which means a redistribution of that portion of the energy which is capable of direction. The scheme of nature, therefore, is a cycle. The vegetation accumulates the energy, as far as time is concerned, leaving it in a scattered form, requiring power to collect it; this power is in the grass, and only wants direction; this it receives in the animal, which again expends some of the energy in the operation of collecting. If vegetable energy be supplied to the animal in a collected form, then a large portion of the directed energy is available for mechanical purposes. And in this way we may form a rough estimate of the directed energy to be obtained from sunshine in this country. The common agricultural rule is one horse or bullock to two acres, such a horse pulling 120 lbs. at a rate of 3·6 feet per second for eight hours a day. That is a nominal horse-

We thus get something like 6,000,000 over and above the energy necessary for the energy spent in eating the corn and moving itself, which we must put down as at least equal in amount. Taking only the available portion, we have the equivalent per acre of nearly three tons of coal burnt in such steam-engines as exist at present. Now the average weight of the vegetable produce from one acre, taking the form of straw and corn, would be about two tons. So that, as far as mechanical power is concerned, coal burnt in our present steam-engines, and corn and straw eaten by horses, yield about the same energy, weight for weight.

The energy which we derive from sunshine is scattered all over the earth, and if it is to be utilised at any spot other than that at which the sunshine falls, it must be transmitted by the expenditure of power.

The energy required for immediate operations of agriculture absorbs a large proportion of the actual energy grown. The surplus is available for purposes of art, and we may say that the primary object of man has been to render this surplus as large as possible. This is accomplished, in the first instance, by applying the residue of energy to so ameliorate the conditions of agriculture as to increase the yield and diminish the labour. In this way the land is levelled, enclosed, and drained; buildings are erected, and finally, but most important of all, roads are made. The effect of roads in increasing the surplus energy is probably greater than any other human accomplishment. The only means of transmitting for purposes of collection or other purpose aggregate energy in the shape of corn, without roads, is on the backs of animals. In this way two or three hundred miles was the absolute limit to the distance an animal could proceed, carrying its own food. On a good road a horse will draw a ton of food at twenty miles a day, which would mean that it would proceed 800 miles before it had exhausted its supply, or whatever surplus energy there might be available on one spot, half this would be available at 400 miles distance. The labour of maintaining the roads should, of course, be deducted, but this is very small.

The labour of constructing canals is very great, but the result is equal; a horse can move 800 tons twenty miles a day: or a horse could draw his own food for 80,000 miles on a canal. That is to say, with a canal properly formed, a horse could go five times round the world without consuming more energy than was in the boat behind it. Or corn could be sent round the world with a consumption of one-fifth. On railways, at low speeds, the force required is about ten times greater than on a canal, so that the expenditure in going round the world would be about equal to the total energy drawn. If for a moment we replace the horse by

the steam-engine, and the corn by coal, we have to add the weight of the engine to the coal, and diminish the efficiency by one-third; we so get that the consumption of coal for the same load of coal as of corn, would be about double, or an engine would go about one-fourth round the world, consuming in coal the net weight in the train, that is exclusive of carriages and engine. Or for every thousand miles corn is carried by rail, something like 10 per cent. of the energy of the corn is expended in draft. This is exclusive of the expenditure in wear and repairs, which will be certainly equal, if not greater. Taking, then, the mean distance by rail between London and the West of America, as 2,000 miles, the present expenditure in the energy of corn in transit is somewhere about 20 per cent. The expenditure of energy on the ocean varies, but if transported by steam it would be probably 10 per cent. more, so that at the present time we are actually receiving available mechanical energy, transported in the form of corn, over 2,000 miles of land and 3,000 miles of sea, entirely by artificially directed power, with an expenditure of less than 20 per cent.; a proportion which 200 years ago would have had to have been spent in transmitting it, fifty miles over land; a result which has been accomplished by the employment in the meantime of the residual energy over and above that necessary for agriculture, together with a further supply drawn from our coal beds.

Turning now our consideration to coal, we find that per weight as used at present, this yields rather less power than corn, but not less than two-thirds, and it then appears that coal may be transmitted at the present time, between any two places on the earth which are connected by rail and water, with an expenditure of less than 50 per cent.

In instituting this comparison, the standard has been the actual available power, as developed in our present engines and in horses, with which, weight for weight, there is not much difference. But the adaptability of this energy, so developed for particular purposes, renders the one medium much more valuable than the other. Thus for agricultural purposes, weight for weight, horse food is worth in money ten times as much as coal. This shows the extreme difference in the value of energy according to its adaptability; and the extension, for which there is unlimited scope, of the adaptability of steam power, may render it ten times as valuable as at present; nor would this be any small proportion compared with the total energy employed in the work of the world. In this country there are said to be between two and three million horses, and we may put the labouring men down at five millions, or the total power derived from corn as over three million horses. From the best information going, the work done by steam in this country does not

horse food comes across the Atlantic: and for many years maize was sold in this country at an average price of £6 or £7 a ton, the cost of transit being a very small matter. Of course the same cost, say £1 per ton, applied to coal would be a serious matter, considering the low price of the latter. But if, in the present state of our art, energy can be transmitted by corn from any part of the world to this country with an insensible rise, there is no reason to suppose but that, with the advance which science shows us, there is every reason to expect coal may be transmitted with a corresponding small increase in its cost, wherever the demand for it is sufficient to recompense the outlay necessary for opening the roads or canals.

## II.

(*Delivered* April 30, 1883.)

In my last lecture I dealt with the transmission of energy through the means of coal and corn, showing that by either of these means power may be transmitted by rail with an expenditure of 1 12,000th per mile, or by water of 1 120,000th per mile, this either through the agency of horse or steam.

This ease of transmission, however, depends entirely on the railroad or water, and is only possible between places so connected. Hence such means are only applicable to what may be called the mains of power.

We come to-day to consider other means of transmitting energy in smaller quantities applicable to its distribution for immediate application. Such transmission is not a matter of secondary importance, although the distances over which it is transmitted may be comparatively insignificant. To emphasise this, I may recall what was previously mentioned, namely, that the relative price of corn and coal shows that the power given out by horses is at least ten times as valuable as that of steam, for more than half the purposes for which energy is used: or that it answers better to burn our coal in bringing corn from America to plough in England, than to use the coal here for ploughing.

In fact, for most of the detailed purposes for which power is used, to draw it from a large source (such as a steam-engine), distribute it and adapt it to its purpose, is ten or twenty times more costly than its transportation in large quantities over thousands of miles.

Now the means of artificially transmitting power may be considered as

with the energy transported—as, for instance, in our watch-springs. The second means is the transmission of power by moving matter, without actually storing the power in the matter—as in shafts and belts, hydraulic connection, &c. And the third method, which is distinct from the others, is the transmission of energy, in the form of heat or electricity, by the flow of currents through conductors; in this way all the power in the steam passes through the boiler-plates from the furnace into the boiler. Of course, each one of these means includes an infinite variety of detailed contrivances, more or less dissimilar. But there is good reason for classing them under these three heads, for all the contrivances under each of these heads are subject to the same general limits, whether those of efficiency or distance.

There is one thing in common to all these means of transmission, and that is that they all involve a material medium. The quantity of matter required constitutes a primary consideration in all of them. This quantity of matter is fixed by what we may call the properties of matter, one of the most important of which, as regards the first two means, is the possible strength of material. Looking round, we see the effect of the limited strength of material in all nature's works. Of course it may be that we shall be able to work with stronger materials than we have at present. Organic materials, such as the feathers and tissues of animals, are stronger than steel, weight for weight, so that there is a possibility of improvement, but that man will go beyond nature in constructing organic fibre seems improbable, and such possibility of improvement as exists may be discounted. At present we may set down our strongest working material as steel, the art of working in which is so perfect, that we may calculate on nearly the greatest strength for all purposes. I have taken fifteen tons on the square inch as the limit of safe working tension, in making the estimates which I shall now bring before you. First of all, I will ask your attention to the possibilities of transporting power in a stored form.

The question of economy in the conveyance of energy in a stored form is simply one of the intensity with which it can be stored. If we want to carry energy about, we must have it stored in some material form—and this material has to be carried by ordinary means—so that the question of economy is simply the amount of available energy that we can store in a given amount of material.

If energy, stored in a particular manner, is more readily available for some special purpose than that stored in another, then it may, on the whole, be more economical to carry it in that form. This is abundantly illustrated in our watch-springs.

store the energy necessary to maintain one horse-power for one hour would require no less than fifty tons of steel—that is to say, fifty tons of steel in the form of watch-springs, all fresh wound-up, would not supply one horse-power for one hour; and yet this is the commonest form in which energy is carried about.

It is the adaptability of the spring, and the readiness with which energy can be put in and taken out, which recommend the steel spring.

India-rubber will store much more energy than the same weight of any other material, say, eight or ten times as much as steel; but of this, several tons would be required to store the horse-power for one hour. A much more capacious reservoir, according to its weight, is compressed air. There are certain difficulties in getting the energy in and out without loss; but with air, compressed to four times the pressure of the atmosphere, we should only require about 20 lbs. of air to yield the amount of one horse-power for one hour. Of course, if we were going to carry this air about, to the weight of the air would have to be added the weight of a case to contain it, and such a case, in the form of steel tubes, would weigh something like 230 lbs.: so that, in any form in which we can carry compressed air about, we shall have about 300 lbs. to carry for each horse-power per hour.

Another means of storing energy, very largely used, is hot water. This is largely used in a way not always recognised. The boiler serves another purpose besides that of converting the energy of the furnace into the power of the steam. It stores the power, and equalises the stream between the fire and the engine, a function the importance of which has been brought to the front in the recent efforts to apply electricity for communication of power, where the want of a similar reservoir between the generator and the motor has, in many cases, proved fatal to the enterprise, a want which secondary batteries are now being used to meet. Hot water has also been employed as an independent reservoir, and as such it is better in some respects than compressed air. The fundamental limits are of much the same kind. In this case, however, the absolute limit is temperature. The vessel in which the water is carried must be strong enough to withstand the pressure, and all materials lose their strength as they get hot. The considerations are here much the same as in the steam-engine, and 400° Fah. appears to be about the limit. At this temperature, for every 4 lbs. of water the cases would weigh 1 lb., and there would be no advantage of large over small cases; except as a matter of construction, the proportionate weight would be the same. The gross power of a pound of water, the steam being used without condensation, is about 20,000 foot-pounds, or we should require 50 lbs. to store 1,000,000; this is the extreme limit again. The present accomplishment would be about 150 lbs. per 1,000,000 foot-pounds stored—

rather less than compressed air. The only other means of packing power, that is at present looked to, is that of the much talked about secondary battery. Here there is a great deal of doubt as to what is actually accomplished: take the most reliable statements, from which it seems that in order to get 1,000,000 foot-pounds, something like 100 lbs. of battery is required, which will make this means of storing energy very much the same as compressed air or hot water.

It is important to notice that the initial cost of the energy stored by these means differs considerably. This cost is rather difficult to estimate; but a practical estimate may be formed in this way:—

Taking the power, as delivered by the steam-engine, as 1, how much of this power will be given out after secondary storage? Here the hot water has an advantage, for it is heated directly by the coal, and is all on its way to the steam-engine.

With compressed air, there are three operations, each as costly as the steam-engine, and at least half the initial power is spent during the compression, storage, and expansion; so that the energy is at least double as costly in coal, and six times as costly in machinery. I have put it down as three times as costly as the energy in hot water, but this is considerably below the mark. The electricity has also to go through three operations, and cannot be less costly than compressed air.

Now, if we revert for one moment to the consideration of the main transmission of power, we see at what an immense disadvantage any form of packed energy is, compared with coal or corn; as at present packed it weighs at least 100 times as much.

While the limits imposed by the strength of material render it certain, as far as compressed air and hot water are concerned, that the weight can never be reduced by more than half, these limits are sufficient to show that packed energy cannot be transported over long distances, even if it can be obtained directly from such falls as Niagara. But this is no argument against the importance of these means for short distances and special purposes. As I have already pointed out, our watches show that circumstances may render the very heaviest means the best for particular purposes. And if in any of its forms packed energy were directly available for household purposes, though it cost ten or twenty times as much as power direct from the steam-engine, its use would still be assured.

One fact should be noticed, that in all these forms the power is packed, and needs nothing but drawing off, whereas corn or coal do not contain the

great advantage of corn and coal for transportation. They are really, so to speak, but cheques for power, which can be cashed at any spot where a bank, in the form of a steam-engine or a horse, exists. But, of course, not being energy, they are not generally current—in fact they are worthless, except where the bank exists, and even there when they represent such small amounts that the banks refuse them. Now these forms of packed power are, so to speak, generally current; that is to say, they are available under almost all circumstances, and in greater or less degrees of smallness; from the very smallest, which is the watch-spring in our pockets, which supplies a continuous stream of power in less than one ten thousand millionth of a horse-power; or the Whitehead torpedo, which carries some million foot-pounds of energy under the sea. Perhaps the most pressing purpose for which these forms of packed energy are wanting is that of locomotion.

The distance which a locomotive body, be it animal or machine, can travel, loaded or free, is limited by the ratio of the power which it carries to its gross weight. The speed which it can attain is limited by the rate at which it can use its energy compared with its weight. Hence there are two particulars in which we can compare the different forms of stored energy for locomotive purposes.

Let us take the horse and the locomotive. A full-sized horse weighs, say, 1,500 lbs., and, at a rate of 2½ miles an hour, will go five hours without food, doing about 10,000,000 foot-pounds of work, including the work necessary to move itself; this represents the largest result, or about 150 lbs. per 1,000,000 foot-pounds. If the horse is put to ten miles an hour, it will not do more than 1·5 million foot-pounds in a single journey, besides moving itself. Probably the greatest rate at which a horse can use its energy is about 4,000,000 foot-pounds per hour, or 750 lbs. per horse-power.

A locomotive with its tender, say, weighing sixty tons, exerts 500 horse-power gross—270 lbs. per horse-power: so that a first-class locomotive with tender is about one-fifth as heavy for its power as the horse: but then the horse cannot go more than ten miles an hour.

Now, in a general way, passenger locomotives carry coal and water for eighty or one hundred miles, *i.e.* two hours: or the locomotive already mentioned expends at one run about 2,000,000,000 foot-pounds: which means that the gross weight of the locomotive is about 60 lbs. or 70 lbs. per 1,000,000 foot-pounds of power with which the locomotive starts.

In thus taking the gross weight of the horse or locomotive, we must remember that this includes the weight of carriage and machinery, and that in whatever form the energy is carried, this weight must be added. In the

weighs about one-quarter the gross load; and if we add the weight of the boiler, we may consider the carriage and machinery at one-half to one-third the gross load. Taking the latter, and substituting for the boiler, coal, and water, energy in either of the above forms, the coal, water, and boiler would be about 40 lbs. per 1,000,000: so that, if we took compressed air instead, we should have one-fourth the power; or the engine would run for thirty minutes instead of two hours, a distance of twenty-five miles instead of a hundred. A fireless locomotive might do more than this, say, thirty-five minutes, or thirty miles, at the same speed as the locomotive. Faure's battery, if it could be made to work at all, would carry the locomotive forty-eight minutes, or thirty-five to forty miles.

These figures seem to show that the locomotive has little to fear from any of these rivals, that is, under circumstances where the smoke and steam are no harm, and where a full-sized locomotive is required. But there are already some cases where the locomotive is required and where the burning of coal is impossible. Should the Channel Tunnel be made, there will be a great field for some form of packed energy. As regards horses, however, there is nothing to show why the horse should not be rivalled by some one of the forms of packed energy. There have been inventors who have constructed carriages to go by clockwork. This has now become possible, substituting hot water, compressed air, or a battery for the spring, and such means have already rivalled the horse on tramways. The fact that horses are at all used for tramcars is a matter of as much surprise as that steam should be used on underground railways. For locomotives driven by compressed air might certainly be made cheaper and better in every way.

At the present time it would probably answer well, from a pecuniary point of view, to supply in compressed air energy at the rate of 2*d.* or 3*d.* per million foot-pounds, provided a sufficient quantity could be required; so that if simple and efficient means of applying such energy to perform the heavier part of manual labour could be found, we might get as much power for 6*d.* as a man will do in a day at 2*s.* But it is the means of applying it that is wanting.

Even for horse work—except where there is a railway or tramway—the mechanical means are wanting. We have no mechanical substitute for the horse's foot. So that there are more than a million horses in this country continually engaged in the operations of husbandry, where they work in groups so as to get three or four horse-power at one operation, an amount of power not too small for the direct application of steam power; and although for twenty-five years steam-engine makers have been doing

ploughing with economy is still a question. The use of steam on paved or on macadam roads is much the same, so that, until steam has been applied to such purposes, there is little hope for other forms of stored energy.

Coming back for a moment to Faure's battery, I would carefully point out that the result which I have put down—100 lbs. per 1,000,000 foot-pounds of energy—refers to what has been already accomplished, and not to any possible limit. The principles involved in the chemical action of these batteries, in fact in all batteries, are well understood; and so far as these principles are involved, it is easy to define limits; but there are a number of secondary actions which are not so well understood, and which have hitherto prevented any approach to the theoretical limits. In the Faure's battery, the theoretical limits are about 3 lbs. per 1,000,000 foot-pounds. That is to say, the oxidisation of 1 lb. of lead to litharge, and the deoxidisation of 1 lb. of peroxide, together, yield 360,000 foot-pounds. How far, at present, Faure's battery is within this limit, at once appears something like twenty-four times. Should this be accomplished, power could be packed at the rate of 1,000,000 foot-pounds for 3 lbs., or say 6 lbs. weight, to allow for wastes, a result which would most certainly displace steam in the locomotive, but which would still leave coal and corn six times the lightest vehicle of power.

It should be noticed, however, that although the means of doing so are still entirely wanting, could other metals, such as iron or zinc, be used instead of lead, the results would be much greater. This is shown by the relative amount of power necessary to oxidise or deoxidise these materials, which we see for iron and zinc are five or six times greater than for lead; here is an apparent opportunity for art.

Should this be realised, then, indeed, coal might be displaced as the cheapest medium for the transmission of power, but that would be a small matter compared with the change that would occur in our ways of applying power. For the dream of Jules Verne, of 20,000 miles under the sea, would become a reality, and, instead of steamboats, we should travel in submarine monsters as yet unnamed, which we may call steam-fish.

But if science as yet imposes no limits beyond those I have mentioned, at the same time it holds out no prospect. The chemistry of these batteries has been very deeply considered, and those who have studied the subject most deeply apparently see no direction in which to direct their efforts; so that any great advance in this art must entail a great discovery in science.

There now only remains for me to consider the transmission of power as power, or by electricity, a most important branch of my subject, which I must take in my next lecture.

## III.

(*Delivered* May 7, 1883.)

So far I have spoken only of the conveyance of power by means of coal, corn, or in one or other of the several forms of packed energy. To-night I come to consider the transmission of power by what are more distinctly mechanical methods, and by currents along pipes and conductors. These are the means by which power is almost always distributed, *i.e.*, transmitted from the acting agent, be it horse, water-wheel, or steam-engine, to its operation, whatever it may be. In most cases the distance of such transmission is so short as to be the subject of small consideration in determining the means to be employed. That is to say, the means are chosen rather by their adaptability to receive and render up the power than by the efficiency with which they transmit it. Thus, if we take an ordinary mill, the shaft which receives the power from the engine is generally driven at that speed which is best adapted to receive the power from the engine, and deliver it to the machinery in the mill, without considering whether a much smaller shaft might be used if it were caused to run at a much higher speed. Thus, in a mill driven by an engine of two or three hundred horse-power, the shaft which receives the power will generally be five or six inches in diameter, whereas it would be possible to use a shaft of two inches diameter if the efficiency of the shaft were the only consideration. Or, again, take a screw steamboat. The distance from the engines to the screw may be 250 feet, the power 10,000 horse. This could be transmitted by a shaft twelve inches in diameter, if allowed sufficient speed, but the screw has to make sixty revolutions per minute, and this determines the speed at which the shaft is made to run, and hence the shaft is made thirty inches instead of twelve inches. This is because, owing to the smallness of the distance, the efficiency of the means of transmitting the power is a small consideration. There are, however, many circumstances under which it is impossible to bring the source of power close to its work, and then either mechanical power is not used, or the efficiency of the means becomes a consideration.

In other cases it is a question whether it is better to distribute the sources of power, such as steam-engines, so that they may be near their work, or to use one large source, and distribute the power by some mechanical means. This rivalry exists in almost all engineering work which

machines by means of shafting. In many cases separate engines are used for each machine, but not often separate boilers, the power being distributed by steam-pipes.

Dockyards have long afforded a field for the competition of the various means of distributing power. Here, generally, the distances between the operating machines, such as cranes and capstans, is considerable, and the work required from each machine very casual. And every means of distribution is or has been in use, from a separate engine and boiler to each machine as at Glasgow, separate engines drawing their steam from central boilers, to a complete system of hydraulic transmission from a central pumping station, as at Grimsby or Birkenhead.

But the question between centralisation or distribution of steam-engines is not by any means the only one, or most important one, which depends on mechanical means of distributing power. Every improvement in the means of distributing power from a central engine opens a fresh field for its use.

The considerations relating to this subject are numerous. Hitherto, as regards the main transmission of power, the principal consideration has been the percentage of loss according to the distance; but, as regards the final distribution of power, the form in which it is distributed must be such as admits of its being at once available for its purpose. Thus hydraulic distribution is favoured in dockyards, because it is required for heavy forces and slow motions, but where rapid motion is required, hydraulic distribution gives place to some other.

Again, where the quantity of power that has to be distributed is a most important consideration, the distribution by means of water or compressed air will generally be the most efficient, whereas these would be by far the most costly means for small quantities. It thus has to be remembered that, besides the general question of efficiency, each means has particular recommendations for particular purposes.

It is not, however, with these particular recommendations that I am concerned. My object is to show the limits within which the use of each means is confined, however fit it may be for its purpose. Taking first the mechanical means, which are shafts and ropes, we find that the possible limits to both these means are absolutely defined by the strength of material. The amount of power any piece of material will transmit by motion against resistance, is simply the mean product of the stress or force acting in the direction of motion on the section multiplied by the velocity, so that, if

In a revolving shaft, neither the stress nor the velocity is uniform over the section, both varying uniformly from nothing in the middle to their greatest value on the outside; so that their mean product is exactly half the product of the greatest values. The greatest power per square unit of section a shaft can transmit is half the product of the greatest stress into the velocity at the outside of the shaft.

Taking, then, the greatest safe working stress for steel at 15,000 lbs. on the square inch; taking what is the greatest practical velocity at the surface, 10 feet per second (the speed of railway journals); the work transmitted is 75,000 foot-pounds per second per square inch of section—135 horse-power; so that we should have to have a shaft of upwards of 7 square inches in section to transmit 1,000 horse-power, that is, a shaft of over 3 inch diameter. The friction between such a shaft and lubricated bearings is well known, ·04; so that, calculating the weight of the shaft 24 lbs. per foot, we have power spent in friction about 52,000 foot-pounds per mile, that is one-tenth the total power the shaft will transmit. That is, if we put 1,000 horse-power into a 3-inch shaft, making 500 revolutions per minute, we ought, at the end of a mile, to be able to take 900 horse-power out of it. If we had to go farther, the size of the shaft might be diminished, so that in the next mile we should again lose a tenth, and if we repeat this process seven times, we shall, at the end of seven miles, have left about half the original power put in.

It will be thought, perhaps, that a 3-inch shaft is very small to transmit so large a force; this is because the speed of 500 revolutions per minute is inconveniently high for purposes of employing the power; but if it were merely a question of transmission, it would be about the best speed. This, then, shows the limit of the capacity of shafts as transmitters of work.

Turning now to steel ropes, these have a great advantage over shafts, for the stress on the section will be uniform, the velocity will be uniform, and may be at least ten to fifteen times as great as with shafts—say 100 feet per second; the rope is carried on friction pulleys, which may be at distances of five or six hundred feet, so that the coefficient of friction will not be more than ·015, instead of ·04. Taking all this into account, and turning to actual results, the work transmitted per inch would be 7,500,000 foot-pounds per second; or that a $\frac{3}{4}$-inch rope is all that is necessary to transmit 1,000 horse-power in one direction, this would make the loss per mile only 1-60th. But in practice, rope has to be worked backwards and forwards, and the tension in the backward portion of the rope must be half the tension in the forward portion. This reduces the

be lost in ten miles. If we use a bigger rope, and run at lower speed, then the coefficient of friction would be reduced to ·01, and the distance extended to fifteen miles.

Experience with ropes is large, and they have been found, without question, to have been the most efficient mechanical means of transmitting power to long distances, but their use is subject to drawbacks. The ropes wear somewhat rapidly, as do also the pulleys on which they run, and this circumstance is very much against their use in any permanent work. Nevertheless, they are used for working mines, steep inclines, and steam-ploughs; while at Schaffhausen they have been used for transmitting power to considerable distances.

Turning to the transmission of power along pipes, we find the conditions somewhat modified. The formula for the amount of power transmitted by water is the same, namely, the product of the pressure and area of section into the velocity. But the resistance obeys different laws. In the case of shafts and ropes, we have seen that the distance is subject to an absolute limit.

In the case of fluid in pipes this is not so. No matter how long a pipe may be, if there is no leakage, water would flow along the pipe until the level of its surface were the same at both ends. But the rate of flow would diminish with the length and diameter of the pipe. Thus we can transmit power through a perfectly tight pipe, however small, and however long; but when we come to consider the gross power that can be transmitted through a given pipe, with a given percentage of loss, the question is different. Given the size and strength of the pipe, the gross amount of power, and the percentage of loss, and the limits are fixed. Thus, taking a 12-inch pipe capable of standing 1,400 lbs. on the square inch, the loss in transmitting 1,000 horse-power would be about 5 per cent. per mile, at first increasing—as the pressure fell to 700 lbs.—to 10 per cent. We should thus have lost half the power in about seven miles. We cannot say that seven miles is the absolute limit, for with a 24 inch pipe, which would cost four times as much per mile, we could transmit the same power thirty times as far with the same loss. The cost of laying a 12-inch pipe for seven miles, however, would probably be as much as even 1,000 horse-power would stand; while a 24-inch pipe for 200 miles would be out of all proportion. Then there is the consideration of leakage, which, although very small for short lengths, is larger for greater lengths.

Seven miles is at present an outside economical limit of hydraulic transmission, even for such a large amount of power: but with air the case is different. This flows so much easier than water, that the cost of transmitting the same power through the same distance, with the same loss, would be about 12 per cent., or, at the same cost per mile, the air may

be transmitted 100 times as far with the same loss. The total cost, however, would thus be 100 times as great, which would exceed the economical limit; but not only theory but practice has shown that power may be economically transmitted five times as far by air as by water—something like thirty miles. But on comparing these two means, one circumstance must not be lost sight of, and that is, that getting the power into the pipe in the form of compressed air, will cost twice as much as getting it in in the form of water. This is a great advantage for water where the distance is short, but where the distance is long, the greater efficiency of air more than compensates for this initial loss.

Like water, air can only be transmitted economically where the quantity is large, the friction being proportionately greater in small pipes than in large, varying as the four-fifths power of the diameter.

This is a great drawback, both as regards hydraulic and compressed air transmission. It does not affect ropes and shafts in the same way, but even in these cases considerations of durability prevent these means being used efficiently for the transmission of small quantities of power to considerable distances, so that, with the possibility already mentioned, there remains an opening for any means that will enable power to be transmitted efficiently in small quantities, and such a means we have in the flow of electricity along wires or conductors. In considering electricity, we may well start with the questions, (1) Will electricity enable us to transmit power in large quantities more efficiently than the foregoing means? (2) Will it enable us to transmit small quantities? These questions may be more definitely answered than they could a few weeks ago. Thanks to the experiments of M. Deprez, who appears to have been the only one, out of all those who are advocating the use of electricity, who has had the courage to try and see what can be done, we can now say with certainty that a current of electricity, equivalent to 5 horse-power, may be sent along a telegraph wire 1-6th of an inch in diameter, some ten miles long (there and back) with an expenditure of 29 per cent. of the power, because this has already been done. In order to do this, it would seem that M. Deprez has perfected his apparatus so as to have nearly reached the possible limit. Compared with wire rope, this means falls short in actual efficiency, as M. Hirn sends 500 horse-power along a $\frac{3}{4}$-inch rope. To carry this amount, as in the experiment of Deprez, one hundred telegraph wires would be required: these wound into a rope would make it more than 1·4 inches in diameter, four times the weight of M. Hirn's rope. With the moving rope the loss per mile is only 1·4 per cent., while with the electricity it was nearly 6; so that, as regards weight of conductor and efficiency, the

the flying belt, M. Hirn found the loss at the ends, in getting the power into and out of the rope, $2\frac{1}{2}$ per cent.; whereas, in M. Deprez's experiment, 30 per cent. was lost in the electric machinery alone, which is very small as such machinery goes. But this is not all. No account is here taken of the loss of power in the transmission to and from the electric machinery, a matter which is, I believe, very much under-estimated.

The machines made revolutions at 1,000 and 700, much too high for direct connection with either a steam-engine or any mechanical operator: the power, then, had at each end to be transmitted through gearing, or a system of belts. And supposing this alteration of speed to have been five or six at each end, experience tells us that a loss of at least 15 per cent. must ensue. This loss was indeed apparent, for the dynamometer was connected with the machine with a belt, which showed a loss from this one belt alone of 20 per cent. Taking the whole result, it does not appear that more than 15 or 20 per cent. of the work done by the steam-engine could have been applied to any mechanical operation at the other end of the line, as against 90 per cent. which might have been realised with wire rope transmission. To set off against this, electricity has the enormous advantage in the conductor being fixed, and in the fact that it is likely to be, if anything, less costly and more efficient for small quantities of power than for large. These advantages will certainly insure a very large use for electricity in the distribution of power, particularly for high speed machinery.

There is yet another means of communicating and distributing energy now coming rapidly into vogue. This is by the transmission of coal-gas along pipes. The distances, often many miles, through which the gas is often transmitted before reaching the engine, are such that, with any other means of distributing power, would considerably enhance the cost of the power. But in the case of gas, it does not appear that these distances are at all a matter of consideration. This may be at once explained. It takes about ten cubic feet of gas to develop 1,000,000 foot-pounds in a gas-engine, whereas of air compressed in the ordinary way it would require something like 140 cubic feet to yield the same power. Hence the comparative cost of transmission is the cost of transmitting ten cubic feet of gas against that of 140 cubic feet of compressed air, and these would be about as one to twenty-five; so, as a means of distributing energy, gas is twenty-five times more efficient than compressed air.

I have now placed before you, as far as circumstances will allow, the various means by which energy, in a form available for power, may be transmitted over long distances, together with the circumstances which limit such

be, may is, transmitted half-way round the earth with an expenditure of power less than half the power represented by the coal carried, but this can only be done where the quantity to be transmitted is very large.

At present this efficiency is unrivalled, no means of packed energy or of current energy approaching even 1 per cent. And further, there is apparent room for a large diminution in the present expenditure, small as it is, in the improvement of the steam-engine as a means of directing the energy of coal. For the distribution of power, this means ceases to be efficient, nor can it be employed to transmit energy which has already taken the form of power. For these purposes other means have to be employed. These various means, although they differ greatly in efficiency, all fall so far below the efficiency of coal and corn, that a hundred miles appears to be the outside limit any economical transmission of power in quantity for mechanical purposes, could be at present effected; and hence any power, be it derived from wind or water, must be used within this radius of its source; and, except in places far out of the reach of rail or water, this limit may be divided by ten.

So far as efficiency of transmission in considerable quantities, neither secondary batteries nor electrical transmission are more efficient than compressed air or belts, but when it comes to transmitting small quantities, then electric transmission has a decided advantage. The cost of the electric conductor diminishes with the quantity to be transmitted, and by making the conductor sufficiently large, its efficiency may be increased to any extent.

At the present time, electric conductors are continuous half-way round the world, and whenever a message is sent from England to Australia direct energy is transmitted 10,000 miles, but in what quantity? The energy of the current, as it arrives, is not much more than sufficient to keep a watch going, at any rate not more than 1·1000 millionths of horse-power. The value of such energy, estimated at £17 per minute, would be equivalent to a billion pounds per horse-power per hour, whereas the highest price paid for animal labour in Australia or England is not more than 6*d.* per horse-power per hour. This shows the difference between the transmission of electricity for telegraphic purposes and its transmission for mechanical purposes. Energy differs in value greatly, but for operations that can be performed by men or horses, the price of energy must be regulated by the highest price of corn.

The prosperity of any spot in the past depended on the fertility of the adjacent soil. But the use of coal has altered this, and now the present prosperity of this country is owing to the adjacency of our coal-fields, these

proved means of transmitting coal and corn, it would seem, have, or may again, change this, and if, instead of looking on the life of this country as limited by the life of our coal-fields, we look boldly forward, and foster every means, political, social, and mechanical, which may render this a favourite spot to live upon, we need not fear that the necessity of bringing our coal from a distance will make a difference which will counterbalance the advantage we shall derive from the mechanical facilities we shall have here.

# 46.

[*Read before Section A at the* "British Association," 1883.]

## ON THE EQUATIONS OF MOTION AND THE BOUNDARY CONDITIONS FOR VISCOUS FLUIDS.

TAKING the ordinary equations of motion for viscous fluid, and supposing a tube indefinitely broad in the direction $z$, bounded by solid surfaces

$$y = \pm c \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (1),$$

which tube may be supposed continued in a circle so as to make a circular trough. Suppose it full of water, at rest, and subject to an acceleration $X$, the equation of motion gives

$$\frac{du}{dt} = \mu \frac{d^2u}{dy^2} + X \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (2),$$

or by altering the arrangement, instead of $X$ we may have $-\frac{1}{\rho}\frac{dp}{du}$.

Now initially $u = 0$, $\quad \therefore \frac{du}{dy}, \frac{d^2u}{dy^2} = 0;$

$$\therefore \frac{du}{dt} = X,$$

or

$$= -\frac{1}{\rho}\frac{dp}{du},$$

right up to the surface.

But by the boundary condition at the solid surface $u = 0$ always;

$$\therefore \frac{du}{dt} = 0; \ \therefore \ X = 0,$$

which shows that the boundary conditions are at variance with the equation of motion.

The equations simplify to

$$\frac{\partial u}{\partial t} = \mu \frac{d^2u}{dy^2} - \frac{1}{\rho}\frac{dp}{dx} + X \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (3),$$

with the boundary condition that $u$ is always zero at the boundaries.

For initial conditions we will take $p$ constant, and $u$ uniformly zero.

The equation (2) then becomes

$$\frac{\partial u}{dt} = X \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (4).$$

If now we suppose $X$ to have a uniform value the equation of motion gives $\frac{du}{dt} = X$ throughout the fluid, *i.e.* at the boundaries. This is contrary to the boundary conditions, for if $u$ is always zero at the boundaries $\frac{du}{dt}$ must also be zero.

The functions wanting were rendered evident in the following manner.

By differentiating equation (3) with respect to $t$, remembering that $X$ and $p$ are constants, and that $\frac{\partial u}{\partial t} = \frac{du}{dt}$,

$$\frac{d}{dt}\frac{du}{dt} = \mu \frac{d^2}{dy^2}\left(\frac{du}{dt}\right) \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (5),$$

an equation of which the integrals are well known,

$$\frac{du}{dt} = \Sigma\,(Ae^{(\sqrt{-}\mu y + \mu t)}) \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (6),$$

and which may be determined to suit the initial and boundary conditions.

But it does not follow that the value of $\frac{du}{dt}$ in equation (6) is the same as in (4) because the integral of (5) includes an arbitrary function of $y$,

$$\frac{du}{dt} = \mu \frac{d^2u}{dy^2} + f(y) \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (7).$$

If we determine $f(y)$ to suit equation (4) then equation (7) will not fit the initial boundary conditions.

If however we determine $f(y)$ so that equation (4) shall be satisfied at some small distance $r$ from the boundary, and the boundary condition satisfied we have

$$f(y) = X\left(1 - e^{-\frac{py \pm c}{r}}\right) \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (8),$$

Such a function satisfies all the boundary conditions, but the general value of the function would be

$$f(y) = X - \Sigma\left(X_0 e^{\frac{p_0 y \pm c}{r}}\right),$$

where

$$\Sigma X_0 = X \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (9).$$

The addition of such a function to the equation of motion would meet the initial conditions of the case in question, in which $X$ is independent of $t$, but this is all, for the boundary conditions include that we must have all the differential coefficients of $u$ with respect to $t$ zero at the boundary, to meet which case it would be necessary to have a function

$$F(yt) = \Sigma\left(X_0 e^{\frac{p_0 (y \pm c)}{r}}\right) + t\left(\Sigma X_1 e^{\frac{p_1 y \pm c}{r}} t\right) + \&c. \ldots\ldots\ldots\ldots (10).$$

Instead of adding such functions, however, it seems better to consider in what way the equation of motion can be modified so that these functions result from integration. This would be the case if instead of equation (3) we had the equation

$$\frac{du}{dt} - \Sigma \frac{r_0}{p_0} A_0 \frac{d^2}{dy^2}\left(\frac{du}{dt}\right) = -\frac{dp}{dx} + X + \mu \frac{d^2 u}{dy^2} \ldots\ldots\ldots\ldots (11),$$

where

$$\Sigma A_0 = 1.$$

That is, if we add the term $\Sigma \frac{r_0}{p_0} A \frac{d^2}{dy^2} \frac{du}{dt}$ to the equation, it becomes compatible with the boundary conditions, and the term itself is of the same order as others which have been neglected in constructing the equations of motion, and the strong presumption is that such terms have been neglected.

The case pursued here is the simplest possible, but by a similar method it may be shown that the general case for a fluid at constant density will be met if the equations of motion be modified as follows:

$$\left.\begin{aligned} \frac{du}{dt} - \frac{r^2}{p^2} \nabla^2 \frac{du}{dt} &= -\frac{dp}{dx} + X + \mu \nabla^2 u \\ \frac{dv}{dt} - \frac{r^2}{p^2} \nabla^2 \frac{dv}{dt} &= -\frac{dp}{dy} + Y + \mu \nabla^2 v \\ \frac{dw}{dt} - \frac{r^2}{p^2} \nabla^2 \frac{dw}{dt} &= -\frac{dp}{dz} + Z + \mu \nabla^2 w \end{aligned}\right\} \ldots\ldots\ldots\ldots (12).$$

The equations of motion were not originally the outcome of any complete hypothesis of the molecular constitution of fluids. They involved certain assumptions which would enter into such an hypothesis, but by no means completely define it, any more than would the phenomena of approximately steady motion suffice to define the complete phenomena of motion.

phenomena belong to what may be called approximately steady motions. So that neither the experimental verification of these equations, nor the molecular hypothesis on which they were originally based, was in any sense complete or general. And if the original framers of these equations had attempted to carry them to the second order of small quantities, it would only have been done by further molecular assumptions—and anything like a complete experimental verification was entirely wanting.

This aspect of the case was changed by the foundation of a complete molecular hypothesis of gases, for founding as it did the dynamical theory of gases on complete fundamental assumptions, the equations of motion followed as a consequence of these assumptions—and although not attempted, could have been obtained to any degree of small quantities. Maxwell contented himself with showing that the equations of motion resulting from his assumptions agreed with the equations of motion obtained by Stokes to the first order of small quantities*, but it was perfectly possible to have pursued his reasoning to the second order of small quantities. Having then found that certain terms of the second order were wanting in the equations of motion to meet the boundary conditions as shown by experiment, the most probable method of defining these terms seemed to be to carry the dynamical theory of gases to the second order of small quantities.

For this investigation I adopted the same method as that which I have explained in my paper on the dimensional properties of matter in the gaseous state†, merely extending the method to meet the case of varying motion. The result was that I found terms of the form required, but they entered into the equations with the opposite sign to those required to meet the boundary conditions, and would thus only introduce arbitrary constants of a periodic character. Besides which, these terms clearly vanished at the boundaries, *i.e.* if the boundary were regarded as a plane of total reflection; while according to the theory, as regards the first order of small quantities, the boundary produced no tangential effects whatever.

Having considerable confidence in the method I was using in deducing the equations of motion from the fundamental assumption; it naturally occurred to me to re-examine the fundamental assumptions, to see if these had been introduced into the theory in their fulness. It was then I observed that the theory, both as applied by Maxwell, and myself, neglected any possible dimensions of a molecule, and it became clear that by neglecting

* *Phil. Trans.*, 1867, p. 81.

† See Paper 33, Vol. I., pp. 257 ff.

this we had neglected that which made it possible for the boundary to produce an acceleration on the fluid.

By neglecting the dimensions of a molecule, the cause of transference of momentum across a surface reduces itself to the carriage of momentum by the moving molecules, whereas if we take the size of molecules into account, a certain portion of the area of any ideal surface drawn through the gas must be occupied by the solid matter of the molecules, and the stresses in these molecules will be the cause of the transference of momentum across the surface. This cause of the transference of momentum across a plane had been ignored with the dimensions of the molecule in the theory of gases*.

It became necessary therefore to take this into account to see what effect it had on the equations of motion.

It is clear that this effect would involve the elasticity of the molecules themselves, as the rate at which momentum would traverse them would be that of the propagation of sound in a solid, but considering the relative elasticities of solids and gases, it seemed legitimate to take the elasticity of the molecules as infinite compared with that of the gas, *i.e.* to assume the molecules as absolutely rigid—and the same for groups of molecules in contact, either directly or through other molecules with a solid surface.

Now if we imagine a surface plane for the instant to be moving with the mean velocity of the matter which it traverses, and suppose that $m$ molecules are cut by an unit of this plane and if the $m$ molecules, cut by a plane parallel to the first and at a distance $r$, (the diameter of a molecule) $\frac{m}{q}$ are in contact with those on the first, then if we have a third plane also at a distance $r$ from the second, $\frac{m}{q}$ of the molecule cut by this will be directly in contact with the second, and $\frac{m}{q^2}$ indirectly in contact with those on the first, so that of the $m$ molecules on two planes at a distance $y$ from each other

$$mq^{-\frac{y}{r}} = me^{-\frac{py}{r}},$$

where

$$p = \log_e q,$$

will be indirectly in contact with each other.

Now since according to the assumptions, we regard this connection as

* See Paper 33, Vol. I., pp. 257 ff., "On Certain Dimensional Properties of Matter in the Gaseous State."

rigidly connected with matter

$$= \rho e^{-\frac{py}{r}},$$

at a distance $y$ on either side of the plane, which therefore is an expression for the rigidity of a gas. And it may be noticed that, although the distance to which this rigidity extends is limited by the value of $\frac{r}{p}$ at a surface such as $y = 0$, it is absolute, so that at a solid surface all the matter (not molecules) in contact with the surface, has the mean motion of this surface whatever may be the value of $\frac{p}{r}$.

The expression $\rho e^{-\frac{py}{r}}$ has been obtained on the hypothesis of the distribution of molecules in a gas, and even so, without any very great degree of refining.

It is impossible without a more definite hypothesis than has been propounded at present as to the constitution of a liquid, to say what form the expression for rigidity might there take, but it is reasonable to suppose that as regards the law of molecular contact, it would be the same as that of a gas, only $p$ instead of being large would be very small, but as regards the rigidity, the same assumption could not be made any more than a whole fishing-rod can be considered rigid in the same degree as a single joint of such a rod.

# 47.

## ON THE GENERAL THEORY OF THERMO-DYNAMICS.

## A LECTURE DELIVERED TO THE INSTITUTION OF CIVIL ENGINEERS. 15 NOVEMBER, 1883.

*From* "The Proceedings of the Institution of Civil Engineers, 1883."

In lecturing on any subject, it seems to be a natural course to begin with a clear explanation of the nature, purpose, and scope of the subject. But in answer to the question—What is thermo-dynamics? I feel tempted to reply—It is a very difficult subject, nearly, if not quite, unfit for a lecture. The reasoning involved is such as can only be expressed in mathematical language. But this alone should not preclude the discussion of the leading features in popular language. The physical theories of astronomy, light, and sound involve even more complex reasoning, and yet these have been rendered popular, to the very great improvement of the theories. Had it appeared to me that it was the necessity for mathematical expression which alone stood in the way of a general comprehension of this subject, I should have felt compelled to decline to deliver this lecture, honourable as I acknowledge the task to be.

What I conceive to be the real difficulty in the apprehension of the leading features of thermo-dynamics is, that it deals with a thing or entity (if I may so call heat) which, although we can recognise and measure its effects, is yet of such a nature that we cannot with any of our senses perceive its mode of operation.

Imagine, for a moment, that clocks had been the work of Nature, and that the mechanism had been on such a small scale as to be imperceptible even with the highest microscope. The task of Galileo would then have been reversed: instead of inventing machinery to perform a certain object, his task would have been from the observed motion of the hands to have

discovered the mechanical principles and actions of which these motions were the result. Such an effort of reason would be strictly parallel to that which was required for the discovery of the mechanical principles and actions of which the phenomena of heat were the result.

In the imaginary case of the clock, the discovery might have been made in either of two ways. The scientific method would have been to have observed that the motion of the hands of the clock depended on uniform intermittent motion; this would have led to the principle of the uniformity of the period of vibrating bodies, and on this principle the whole theory of dynamics might have been founded. Such a theory would have been as obscure, but not more obscure, than the theory of thermo-dynamics. But there was another method in the case of timekeepers, the one by which the theory of dynamics was actually brought to light—namely, the invention of an artificial clock, the action of which could be seen, and, so to speak, understood. It was from the pendulum that the constancy of the periods of vibrating bodies was discovered, and from this followed the dynamical theories of astronomy, light, and sound. There is no great difficulty in the apprehension of these theories, because they do not call for the creation of a mental picture, but merely for the exaggeration or diminution of what we can actually see in the clock.

As regards the mechanical theory of heat, however, no visible mechanical contrivance was discovered or recognised which afforded an example of this action; apparently, therefore, the only possible method was the scientific method—namely, the discovery of the laws of its action from the observation of the phenomena of heat, and accepting these laws, without forming any mental image of the dynamical origin, was the only method open. This is what the present theory of thermo-dynamics purports to be.

But although the theory of thermo-dynamics may be said to have been discovered in the form in which it is now put forward, this is not quite true. For one of the discoverers of the second law, and the one who had priority over the others, worked by the aid of a definite mechanical hypothesis as to the actual molecular motions and forces on which the phenomena of heat depend, and many of the most important steps in the theory are solely to be attributed to his labours. But to return to the theory. This may be defined as including all the reasoning based on two perfectly general experimental laws, without any hypothesis as to the mechanical origin of heat. In this form thermo-dynamics is a purely mathematical subject and unfit for a lecture. But as no one who has studied the subject doubts for a moment the mechanical origin of these laws, I shall be following the spirit, if not the letter of my subject, if I introduce a conception of the mechanical actions

have ventured, had it not been that, while considering this lecture, I hit on certain mechanical contrivances which afford sensible examples of the action of heat, in the same way as the pendulum is an example of the same principles as those involved in the phenomena of sound and light. These examples, thanks to the ready aid of Mr Forster in constructing the apparatus, I am in a position to show you, and I am not without hope that these kinetic engines may in a great measure remove the source of obscurity on which I have dwelt.

The general action of heat to cause matter to expand, or to tend to expand, is sufficiently obvious and popular. That the expanding matter will do work is also sufficiently obvious, but the exact part which the heat plays in doing this work is very obscure.

It is now known that heat performs two, and it may well be said three, distinct parts in doing the work. These are—

(1) To supply the energy equivalent to the work done.

(2) To give the matter the elasticity which enables it to expand, *i.e.*, to convert the inert matter into an acting machine.

(3) To convey itself (*i.e.*, heat) in and out of the matter.

This third function is generally taken for granted in the theory of thermo-dynamics.

In order to make any use of thermo-dynamics, a knowledge of the experimental phenomena of heat is necessary; but as time will not permit of my entering largely into these, I have had some of the leading facts suspended as diagrams. One or two it will be well to mention.

Heat as a quantity is independent of temperature, the thermal unit taken being the amount of heat necessary to raise 1 lb. of matter 1° Fahrenheit.

Temperature represents the intensity of heat in matter. Matter in most of its forms expands more or less uniformly as we add heat to it; hence the expansion of matter measures temperature. Gases such as air expand in absolute proportion to the heat added under a constant pressure.

Absolute temperature is an idea derived from the observed rate of contraction of gases; they would vanish to nothing with the temperature 461° below zero Fahrenheit. For the other phenomena I must refer to the diagrams as I proceed.

Our knowledge of these facts has been accumulating during the last two hundred years, and it was in a very complete condition forty years ago

before thermo-dynamics was born. The birth of this science may be considered as the result of the recognition of work—motion against resistance as a true measure of mechanical action, and of accumulated work or energy as the potency of all sources of power. These ideas have now become extremely popular, and all are able to recognise in the raised weight, the bent spring, the moving hammer, the same thing, energy, which is measured by the amount of work which can be derived from any of these sources.

Before the recognition of this means of measuring mechanical potency, any definite idea of the true mechanical action of heat was impossible, for we had not recognised the only mechanical action by which it can be measured.

In 1843 Joule conclusively proved that, by the expenditure of 772 ft.-lbs. a thermal unit of heat must be produced, provided all the work was spent in producing heat. The simplicity of the ideas here involved, and the completeness of Joule's proof, acted at once to render the first law popular. No language can be too strong in which to express the importance of this discovery; yet, as was long ago pointed out by Rankine, the very popularity of Joule's law went a long way to obscure the fact that it did not constitute the sole foundation of the theory of thermo-dynamics. Before Joule's discovery it was recognised that heat acted a part in causing work to be performed. It was clearly seen that it was heat which caused the water to expand into steam, against the resistance of the engine, and the necessity of heat to cause matter to expand was recognised.

To make matter do work it was only necessary to heat it. It would expand, raising a weight; and since after doing its work the matter was still hot, it was supposed that the only necessity for the heat was to add increased elasticity to matter. It was seen that the heat that had once been used was so degraded in temperature that it could not be all used again. So that, although there was no idea that heat was actually consumed in doing the work, it was seen that for continuous work a continuous supply of heat at a high temperature was necessary. As regards the exact proportion of heat required for the supply of elasticity, to perform a certain quantity of work, fairly clear ideas prevailed. It was seen that this depended on various circumstances. These were formulated by Carnot, who in 1828 gave a formula, which is equivalent to our second law of thermo-dynamics, of which it was the parent.

Now this idea that heat merely caused work to be done was not absurd, as is sometimes supposed. Indeed we may say that the present popular idea that the whole heat is convertible into work is more erroneous than the old

is to supply elasticity was right, as far as it went. Although the present idea that the function of heat is to supply energy from which the work is drawn is also right, yet in any known possible heat-engine ten times more heat is necessary for the purpose of giving elasticity to matter than is converted into work by elasticity. This error, which seems to be very general amongst those who have not made a special study of the subject, may, I think, be attributed—first, to the popularity of the first law of thermo-dynamics, and secondly to the fact that although the second law of thermo-dynamics is nothing more nor less than a statement of the proportion which the quantity of heat necessary to produce elasticity bears to the quantity which this elasticity will convert into work, yet that it is the invariable custom in stating this law to omit all attempt to explain the purpose which this excess of heat serves; the reason for this omission being that experiment only shows that this heat is necessary, and hence this is all that we have a right to say.

If such an error prevails it is only a popular error, for it certainly did not affect the progress of the science. No sooner did Joule's law become known than it was taken up by Rankine, who, in 1849, published a complete theory of thermo-dynamics, based, as I have said, on a hypothetical constitution of matter. This was almost simultaneously followed by theories based on an improved form of Carnot's reasoning by Thomson and Clausius.

Rankine's theory was based on a hypothetical constitution of matter. He invented a system of molecular motions and constraints, which he called molecular vortices, and he then calculated the effects of these motions by the theory of mechanics. The fact that his reasoning was based on a hypothesis was considered by many as a fault in his reasoning. But on the other hand the clear idea thus obtained, as to the reason of everything he was doing, gave him such an advantage over those who were working by experimental laws, of the meaning of which they would venture no opinion, that he was led to make discovery after discovery in advance of his competitors, while some of his discoveries are still beyond the reach of experiment.

There was, however, a difficulty Rankine had to face; some properties of matter were pointed out which his hypothetical matter did not possess. This was not much to be wondered at, for although Rankine had invented machinery which would account for the mechanical action of heat, there was no reason to suppose this to be the only machinery. Rankine, with a view to the difficult calculations he had to make, had chosen machinery as simple as possible. Instead, however, of trying to complicate it, he, yielding to the opinion of his cotemporaries, adopted the general conclusions to which

it had led him as axiomatic laws, and so cut himself adrift from his hypothesis.

It comes to be, then, that the student of thermo-dynamics finds as a reason why we must pass a large amount of heat through his engine, besides that which is converted into work, he is to accept an axiomatic law as to the greatest possible amount that can be converted under the circumstances.

To tell a child who asks why he cannot have more food, that he can only have 6 oz. a day, would be considered cruel. So to tell a student who wants to know why, out of the ten million foot-lbs. in 1 lb. of coal, a steam-engine can only give one million as work, that he is only allowed $\frac{T_1 - T_2}{T_1 + 461}$, is cruel, yet this is all he can have from the theory of thermo-dynamics based on its experimental laws.

Rankine, when compelled to abandon his hypothesis as the foundation of his theory by the objections justly urged against it, pointed out the great disadvantage of a mechanical theory conveying no conception of the mechanical basis of its laws; and called on all those who taught the subject, to try and find some popular means of illustrating the second law.

This call was made twenty years ago; but, I believe, up to the present time no such illustration has been forthcoming. When undertaking this lecture I had no idea of such an illustration, and I did not intend to say much as to the reason of the second law. But, as I have said, three weeks ago an idea occurred to me. It arose in this way: Heat acts in matter to transform heat into work by molecular mechanism. Having much studied the subject, I have in my mind a picture, right or wrong, of the mechanism, and the part which heat acts. The question occurred—Is there no way of making a machine such that, although the parts are in visible motion, and the energy transformed to work is visible energy, yet the energy supplied shall have the characteristics of heat-energy, and the machine shall act simply in virtue of the elasticity caused by the motion of its parts?

The question had no sooner arisen than several ways of carrying out the idea presented themselves.

The general idea of the mechanical condition which we call heat is, that the particles of matter are in active motion; but it is the motion of the individuals in a mob, with no common direction or aim. Rankine assumed the motion to be rotatory, but it now appears more probable that the motion in the particles is oscillatory, undulatory, rotatory, and all kinds of motion, whatsoever; so that the communication of heat to matter means the communication of internal agitation—mob agitation. If, then, we are to make a

its work in virtue of the communication of internal promiscuous motion amongst its parts. The action of heat-mechanism to do work is simply that of expansion of volume, or the increased effort to expand owing to increased agitation. I first tried to think of some working arrangements of small bodies which should forcibly expand when shaken; but it appeared that it would be much easier to effect a contraction. This was as good. As long as any definite alteration in shape could be produced against resistances by a definite amount of agitation in its parts, we should have a machine illustrating the action of the heat-engine.

Suppose we want to raise a bucket from a well. Our best way is to pull or wind up the rope, but that is because the energy we employ is in a completely directable form. Suppose we had no such directable energy, but could only shake the rope, it having been first made fast at the top (Fig. 1, next page). Then, it being a heavy rope, a chain is better; suppose we shake the chain laterally, waves will run down the chain, and, if we go on shaking, the chain will assume a continuously changing sinuous form (Figs. 2 and 3); and, as the chain does not stretch, the bucket must be raised to allow for the sinuosities. The chain will have changed its mechanical character, and from being a tight line or tie in a vertical direction, will possess kinetic elasticity, that is, elasticity in virtue of its motion, causing it to contract its vertical length.

The bucket will be raised, although not to the top of the well, and work will have been done in raising it, but the work spent in shaking the chain will be not only the equivalent of the work spent in raising the bucket, but also of all the kinetic agitation in the chain necessary to raise the bucket. Having raised the bucket as far as possible with a certain power of agitation, if the supply of agitation be cut off, then that already in the chain will sustain the bucket until it is destroyed by friction, when the bucket will gradually descend.

But if we want to do more work, to raise another bucket, we may take that which is raised off at the level at which it is raised; then, to get the chain down again, we must allow it to cool, *i.e.*, allow the agitation to die out; then, attaching another bucket, to raise this, we shall again have to supply the same heat, perform the same work, *i.e.*, the work to raise the bucket, and the agitation-energy of the chain. Thus we see that the energy necessary to the working of the machine serves two purposes, it supplies the energy necessary to raise the bucket, and the energy necessary to convert the chain from an inextensible tie into an elastic contracting system, capable of raising the weight, neither of which portions of energy is again serviceable after the bucket has been raised. The one portion is already

as energy, can only sustain the position of the chain. Before it could be used to do more work it must be got out of the chain and back again, which

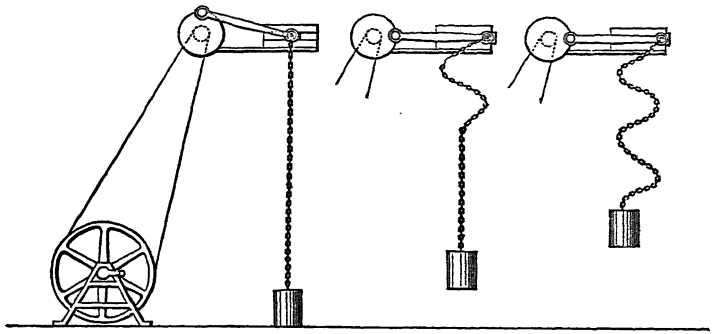


Fig. 1. Fig. 2. Fig. 3.

is just the thing you cannot do; we can get some of it out and some of it back, but not all.

It must not be supposed that this method of raising a bucket by shaking the rope is recommended as the best means. No one would dream of using it if we could get a direct pull, but that is nothing to the point. We are considering the action of heat, and we have limited ourselves to using energy of the same kind that heat supplies; that is, energy in the form of promiscuous agitation, absolutely without direction, so that the question is, how can we raise the bucket by shaking?

I feel that there is a childish simplicity about this illustration, that may at first raise the feeling of "Abana and Pharpar, rivers of Damascus," in the minds of some of my hearers, but, should this be the case, I have every confidence that calm reflection will have the same effect as on Naaman.

The case of the shaken rope, as I have put it, is no mere illustration of the action of heat, but an instance of the same application of the same principles. The sensible energy in the shaking rope only differs from the energy of heat, *i.e.*, a bar of metal is the scale of the motion; we see that in the chain but not in the bar, not because the molecules of the bar are moving slower, but because the scale of motion is infinitely smaller. The temperature of the bar from absolute zero measures the mean square of the velocity of all its parts, multiplied by some constant depending on the mass of the parts which are moving together; so the mean square of the velocity of the chain multiplied by the weight per foot of the chain really represents the absolute temperature of the sensible energy in the chain.

The apparatus which I have on the table is an obvious adaptation of the rope and the bucket. There are three different illustrations apparently very

Here is the chain (Figs. 1, 2, 3), by the shaking of which (addition of promiscuous energy) a weight of 2 lbs. is raised 3 feet, or 6 foot-lbs. of work done; here is another sort of chain, a series of parallel horizontal bars of wood, connected and suspended by two strings (Figs. 4, 5, and 6). By giving a circular oscillation to the upper bar, the whole apparatus is set into a

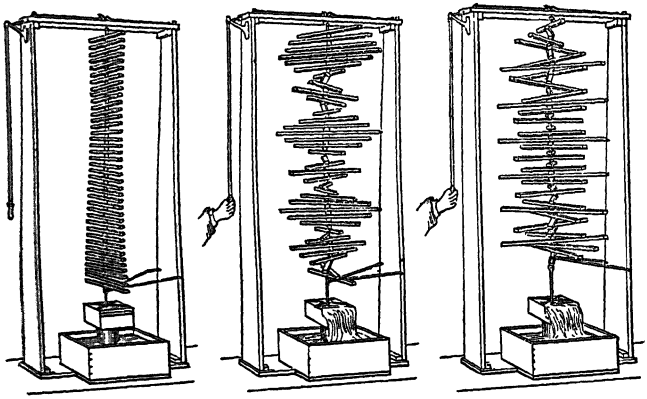


Fig. 4. Fig. 5. Fig. 6.

twisting motion (agitation); the strings are continually bent, and the vertical length of the whole system is shortened, and a weight of 10 lbs. or the bucket of the pump is caused to rise, raising water just as if we boiled water under the piston of a steam-engine. To get the bucket down again for another stroke, we must quiet or cool the chain, just as we must condense the steam, and the energy taken out of the chain in cooling corresponds exactly with the heat that must be taken out of the steam in order to condense it.

The waves of the sea constitute a source of energy in the form of sensible agitation; but this energy cannot be used to work continuously one of these kinetic-machines, for exactly the same reason as the heat in the bodies at the mean temperature of the earth's surface cannot be used to work heat-engines. A chain attached to a ship's mast in a rough sea would become elastic with agitation, but this elasticity could not be used to raise cargo out of the hold, because it would be a constant quantity as long as the roughness of the sea lasted.

In practical mechanics we have no source of energy consisting of sensible agitation, besides the waves of the sea; so that there has been no demand for these kinetic engines to transform sensible mob-energy into work; had there been, I might have patented my idea, though probably it would have long ago been discovered. But there has been a demand for what we may call sensible kinetic elasticity, to perform for sensible motion the part which

the heat elasticity performs in the thermometer, and for this purpose the principle of the kinetic machine was long ago applied by Watt. The common governor of a steam-engine acts by kinetic elasticity, which elasticity, depending on the speed at which the governor is driven, enables the governor to contract as the speed increases. The motion of the governor is not of the form of promiscuous agitation, but, though systematic, all the motion is at right angles to the direction of operation, so that the principle of its action is the same.

The kinetic elasticity of the governor performs the same part as the heat elasticity in the matter of the thermometer; the first measures by contraction the velocity of the engine, and the other measures by expansion the velocity of the molecules of the matter by which it is surrounded, so that we now see that while measuring the speed of sensible revolution, we are performing on a different scale the same operation as measuring the temperature of bodies which depends on the molecular velocities, and that quite unconsciously we have constructed instruments to perform the two similar operations which act by means of the same mechanical action, namely, kinetic elasticity.

These kinetic examples of the action of heat must not be expected to simplify the theory, except in so far as they give the mind something definite to grasp; what they do is to substitute something we can see for what we can barely conceive.

The theory of thermo-dynamics can be deduced from any one of these kinetic examples by the application of the principles of mechanics; such application involves complex dynamical reasoning, such as can only be executed by the aid of mathematics, and would be altogether unfit to introduce into a lecture. I shall therefore pass on to some considerations resulting from the theory of thermo-dynamics.

The discovery of the two laws has enabled us to perfect and complete our experimental knowledge of the phenomena of heat. But probably the greatest practical use is that these two laws enable us to calculate with certainty, from the experimental properties of any matter, the extreme potency of any source of power.

Thus we find by experiment that a pound of coal burnt in a furnace yields fourteen to sixteen thousand thermal units of heat. The first law, Joule's law, tells us at once that this is equivalent to from 11,000,000 to 13,000,000 foot-lbs. of energy. But this is not, as seems to be generally supposed, the power of coal. The second law of thermo-dynamics tells us that in order that this energy might be realised, it must be capable of being

the case; and there is a growing idea that the temperature at which coal will burn is not so extremely high, about 3,000° Fahrenheit. Taking this temperature, and assuming the temperature of the atmosphere to be 60°, we have for the proportion of the heat of coal, that we could with a perfect engine call power, $\frac{2940}{3461}$, about 80 per cent., or from 9,000,000 to 11,000,000 foot-lbs.

Again, we know the heat properties of all known liquids and gases, so that we can, by the second law, tell the greatest possible proportion of the heat received, which can be converted into power by any of these agents.

In the steam-engine, for instance, we see that the present limits of art restrict the temperatures absolutely to 400°, and practically the limits are much less; while the lowest temperature that can be worked to in a condenser is 100°. Then, as the limit to the possibility, we have one-third as the greatest proportion, or three out of the nine million foot-lbs.

The greatest actual achievement by Mr Perkins has been about two millions, while the best engines in use only give us a little over one million, or about one-ninth of the possible realizable portion between 3,000° and the mean temperature of the earth's surface.

I cannot here enter upon these, but the reasons why higher temperatures cannot be used in the steam-engine are obvious enough.

The same reasons do not apply to hot air as an agent. This may be worked at much greater temperatures; and about thirty years ago, as soon as it appeared from the science of thermo-dynamics that the limit of efficiency depended on the range of temperature, attention was much directed to air as a substitute for steam. The attempts then made failed through what were then called practical, or art difficulties.

Just at the present time the possibility of other heat-engines than steam-engines has again come to the front; and as this is so, it seems desirable to call attention to a circumstance connected with heat-engines which has as yet occupied quite a subordinate place in the theory of heat-engines. This is the law as to the rate at which heat can be made to do work by an agent, such as steam or air. The greatest possible efficiency of the agent, *i.e.*, the proportion which the work done bears to the mechanical equivalent of the heat spent, is a matter of fundamental importance; but the rapidity with which the heat can be so transformed with a given amount of apparatus, as an engine of a given weight, is a matter of at least as great importance.

Which would be the best engine for a steamboat; one that would develop

20 H.P. for every ton gross weight, consuming 2 lbs. of coal per H.P. per hour, or one that only gave 2 H.P. per ton weight, and only consumed 1 lb. of coal? Unquestionably the former; yet hitherto the question of heat economy has been considered theoretically, to the exclusion of time economy. Yet the latter forms a legitimate part of the subject of thermo-dynamics, and has played a greater part in the selection of steam as the fittest agent than the consideration of the heat-economy.

In the theory of thermo-dynamics it is assumed that the working agent, be it water or any other, can be heated up and cooled down at pleasure, without any consideration as to the time taken for these operations, which are considered to be mere mechanical details.

Yet in the science of heat a great amount of labour has been spent; a great amount of knowledge gained as to the rate at which heat will traverse matter. And more than this; it is well known that heat cannot be made to enter and leave matter without a certain loss of power, *i.e.*, a certain lowering of the working range of temperature. It is by heat that heat is carried into the substance; and hence, as I have indicated, there is a third law of thermo-dynamics relative to this transmission. Heat only flows down the gradient of temperature, and in any particular substance the rate at which heat flows is proportional to the gradient of temperature. Hence to get the heat from the source or furnace into the working substance a certain time must be consumed, and this time diminishes as the difference of temperature of the furnace and the working substance increases.

The examples of the kinetic engines which I have shown you well illustrate this. If we shake the end of a chain, the wriggle passes along the chain at a given speed. It appears that an interval must elapse between the first shaking of the chain and the establishment of sufficient agitation to move the bucket; a further interval before the bucket is completely raised; and further still, another interval must elapse before the chain can be cooled again for another stroke; so that this kinetic engine will only work at a given rate. I can increase this rate by shaking harder, but then I expend more energy in proportion to the work done.

This exactly corresponds with what goes on in the steam-engine, only, owing to the agent water being heated, expanded, and cooled severally in the boiler, cylinder and condenser, the connection is somewhat confused.

But it is clear that for every H.P. something like 15 million foot-pounds of power have to pass from the furnace into the boiler. As out of this 15 we cannot use more than 2 million, the remaining 13 are available for forcing the heat from the products of combustion into the water, and out of the steam into the condensing water, and they are usefully employed for

The boilers are made small enough to produce sufficient steam, and this size is determined by the difference of the internal temperature of the gases in the furnace and the water in the boiler, and whatever diminishes this difference would necessarily increase the size of the heating surface, *i.e.*, the weight of the engine. The power which this difference of temperature represents cannot be realised in the steam-engine, so that it is most usefully employed in diminishing the necessary size of the boiler. Still it is an important fact to recognise that our present steam-engines require the expenditure of more than five times as much of the power of the heat (not of the heat) in getting the heat into the working substance as in performing the actual operation. This loss of power does not so much occur in the resistance of the metal which separates the furnace from the water as in the resistance of the gases. Gas is a very bad conductor; and though a thin layer adjacent to the plates is always considerably cooled, little further cooling goes on until, by the internal currents, this layer is removed, and a fresh hot layer substituted in its place.

Similar resistance would occur inside the boiler between the water and the hot plate, nay does occur, until the water begins to boil, but then the evaporation of the water takes place at the hot surface, and every particle of water boiled absorbs a great deal of heat, which leaves the surface in the form of bubbles, allowing fresh water to come up.

If we had air inside the boiler instead of water, we should require from five to ten times the surface to carry off the same heat, which is a sufficient reason why what are called hot-air engines cannot answer, even did not the same argument hold with enormously greater force in the condenser.

Steam is as bad a conductor of heat as air as long as it does not condense, but, in condensing, steam will conduct heat to a cold surface at an almost infinite rate, for as the steam comes up to the surface it is virtually annihilated, leaving room for fresh steam to follow, which it will do if necessary with the velocity of sound. If, however, there is the least incondensable air in the steam this will be left as a layer against the fresh steam. Some years ago I made some experiments on this subject, which showed that 5 or 10 per cent. of air in the steam would virtually prevent condensation.

If a flask be boiled till all the air is out, and nothing but pure steam is left, and if the flask be then closed and a few drops of cold water introduced, the pressure instantly falls to zero, though it immediately recovers from the boiling of the water in the flask. If now a little air be admitted, and allowed to mix with the steam, the few drops of water produce scarcely any effect.

The facility with which steam carries heat to a cold surface is both an

enormous advantage and some drawback; as compared with air it is an enormous advantage in enabling the steam to be cooled in the condenser. But during the working of the steam in the cylinder, when the steam is wanted to keep its heat, the facility with which it condenses is a great drawback, and necessitates the keeping of the cylinder hotter than the steam by a steam-jacket. For this part of its work the non-conductivity of incondensable air is a great advantage.

In dwelling thus on the conducting powers of air and steam, my purpose has been to prepare the way for a few remarks I wish to make on another form of heat-engine—the engine in which the heat is generated in the working substance itself.

The combustion-engine, in the form of the cannon, is the oldest form of heat-engine. Here the chemically separate elements in the form of gunpowder are the working substances put into the cylinder; they take in with them the potential energy of chemical separation, which by means of a spark take the kinetic form of heat. Here there is no conduction, the kinetic elasticity propels the shot, and all the heat over and above that used in imparting energy to the shot is lost. The advantages of this form of engine are two. There is no time necessary for conduction, and as the gas generated is not condensable, there is little loss of heat by conduction to the cold metal.

These two advantages are very great, but I should not have mentioned them in reference to guns were it not that there appears to be the dawning of an idea of taming this form of engine so as to substitute it for the steam-engine. To do this it is necessary to introduce coal or coal-gas;—and oxygen in the form of air in place of gunpowder. The thermo-dynamic theory applied to such engines shows that they should possess great advantages over the steam-engine in point of economy. And the considerations I have brought forward as to the loss of the power of heat in the transference of heat from the furnace to the boiler seem to promise such engines an enormous advantage in rate of work, while the substitution of a non-condensable gas for steam in the cylinder seems to get over the art-difficulty of making cylinders to work under high temperatures. We cannot expect any piston to work in a cylinder of over 300° or 400° temperature, but with non-condensing gases the cylinder may be kept cool with little cooling effect on the gases contained in it, even if the temperature of these is 3,000°. This will be the case if the gas in the cylinder is not in a violent state of internal agitation, but it should be remembered that all internal currents much facilitate the conveyance of heat to the walls.

There is one drawback shown by the theory of these engines. The

economy some of the remaining heat should [illegible] charge. To do this, however, would necessitate the extraction of the heat from one mass of gas to communicate it to another, which would introduce all the difficulties of the boiler, increased by having gas instead of water.

But even wasting this heat, the theory still shows a large margin of economy for such engines over the present performance of steam-engines, a margin which is said to have been already realised in the gas-engine, which is a form of combustion-engine in a high state of efficiency. Now, by means of Dowson gas, Messrs Crossley seem to have obtained 2,000,000 out of the 10,000,000 ft.-lbs. in 1 lb. of coal. Further accomplishment in this direction is a question of art; but while on all other hands science shows impassable barriers not far in advance of the present achievements of art, in this direction thermo-dynamics extended to include the rate of operation shows no known barriers; while the fact that, as gas-engines, this system of combustion heat-engines has already established a footing assures them continual improvement.

In conclusion I would say, by way of caution, that the theory of thermo-dynamics does not lead to the conclusion, which seems to be generally held by those who have only realised the first law of the science, that the steam-engine is a semi-barbarous machine, wasting more than it uses, very well for those who know no science, but only waiting until those better educated have time to turn their attention to practical matters, and then to give place to something much better. Thermo-dynamics shows us not the faults but the perfections of the steam-engine, in which there is no waste of power, since all is used either in doing work or in promoting the rate at which the work can be done. Next to the watch, the steam-engine is the highest development of mechanical art, and the science of thermo-dynamics may be said to be the result of the study of the steam-engine.

# 48.

## ON THE TWO MANNERS OF MOTION OF WATER.

[*From the* "Proceedings of the Royal Institution of Great Britain," 1884.]

(*Read* March 28, 1884.)

It has long been a matter of very general regret with those who are interested in natural philosophy, that in spite of the most strenuous efforts of the ablest mathematicians, the theory of fluid motion fits very ill with the actual behaviour of fluids; and this for unexplained reasons. The theory itself appears to be very tolerably complete, and affords the means of calculating the results to be expected in almost every case of fluid motion, but while in many cases the theoretical results agree with those actually obtained, in other cases they are altogether different.

If we take a small body such as a raindrop moving through the air, the theory gives us the true law of resistance; but if we take a large body such as a ship moving through the water, the theoretical law of resistance is altogether out. And what is the most unsatisfactory part of the matter is that the theory affords no clue to the reason why it should apply to the one class more than the other.

When, seven years ago, I had the honour of lecturing in this room on the then novel subject of vortex motion, I ventured to insist that the reason why such ill success had attended our theoretical efforts was because, owing to the uniform clearness or opacity of water and air, we can see nothing of the internal motion; and while exhibiting the phenomena of vortex rings in water, rendered strikingly apparent by partially colouring the water, but otherwise as strikingly invisible, I ventured to predict that the more general application of this method, which I may call the method of colour-bands,

would reveal clues to those mysteries of fluid motion which had baffled philosophy.

To-night I venture to claim what is at all events a partial verification of that prediction. The fact that we can see as far into fluids as into solids naturally raises the question why the same success should not have been obtained in the case of the theory of fluids as in that of solids? The answer is plain enough. As a rule, there is no internal motion in solid bodies; and hence our theory based on the assumption of relative internal rest applies to all cases. It is not, however, impossible that an, at all events seemingly, solid body should have internal motion, and a simple experiment will show that if a class of such bodies existed they would apparently have disobeyed the laws of motion.

These two wooden cubes are apparently just alike, each has a string tied to it. Now, if a ball is suspended by a string you all know that it hangs vertically below the point of suspension or swings like a pendulum. You see this one does so. The other you see behaves quite differently, turning up sideways. The effect is very striking so long as you do not know the cause. There is a heavy revolving wheel inside which makes it behave like a top.

Now what I wish you to see is, that had such bodies been a work of nature so that we could not see what was going on—if, for instance, apples were of this nature while pears were what they are—the laws of motion would not have been discovered; if discovered for pears they would not have applied to apples, and so would hardly have been thought satisfactory.

Such is the case with fluids: here are two vessels of water which appear exactly similar—even more so than the solids, because you can see right through them—and there is nothing unreasonable in supposing that the same laws of motion would apply to both vessels. The application of the method of colour-bands, however, reveals a secret: the water of the one is at rest, while that in the other is in a high state of agitation.

I am speaking of the two manners of motion of water—not because there are only two motions possible; looked at by their general appearance the motions of water are infinite in number; but what it is my object to make clear to-night is that all the various phenomena of moving water may be divided into two broadly distinct classes, not according to what with uniform fluids are their apparent motions, but according to the internal motions of the fluids, which are invisible with clear fluids, but which become visible with colour-bands.

The phenomena to be shown will, I hope, have some interest in them

selves, but their intrinsic interest is as nothing compared to their philosophical interest. On this, however, I can but slightly touch.

I have already pointed out that the problems of fluid-motion may be divided into two classes: those in which the theoretical results agree with the experimental, and those in which they are altogether different. Now what makes the recognition of the two manners of internal motion of fluids so important, is that all those problems to which the theory fits belong to the one class of internal motions.

The point before us to-night is simple enough, and may be well expressed by analogy. Most of us have more or less familiarity with the motion of troops, and we can well understand that there exists a science of military tactics which treats of the best manœuvres and evolutions to meet particular circumstances.

Suppose this science proceeds on the assumption that the discipline of the troops is perfect, and hence takes no account of such moral effects as may be produced by the presence of an enemy.

Such a theory would stand in the same relation to the movements of troops, as that of hydrodynamics does to the movements of water. For although only the disciplined motion is recognised in military tactics, troops have another manner of motion when anything disturbs their order. And this is precisely how it is with water: it will move in a perfectly direct disciplined manner under some circumstances, while under others it becomes a mass of eddies and cross streams, which may be well likened to the motion of a whirling, struggling mob where each individual particle is obstructing the others.

Nor does the analogy end here: the circumstances which determine whether the motion of troops shall be a march or a scramble, are closely analogous to those which determine whether the motion of water shall be direct or sinuous.

In both cases there is a certain influence necessary for order: with troops it is discipline; with water it is viscosity or treacliness.

The better the discipline of the troops, or the more treacly the fluid, the less likely is steady motion to be disturbed under any circumstances. On the other hand, speed and size are in both cases influences conducive to unsteadiness. The larger the army, and the more rapid the evolutions, the greater the chance of disorder; so with fluid, the larger the channel, and the greater the velocity, the more chance of eddies.

With troops some evolutions are much more difficult to effect with

on parade, would be sheer madness in the presence of an enemy. So it is with water.

One of my chief objects in introducing this analogy of the troops is to emphasise the fact, that even while executing manœuvres in a steady manner, there may be a fundamental difference in the condition of the fluid. This is easily realised in the case of troops. Difficult and easy manœuvres may be executed in equally steady manners if all goes well, but the conditions of the moving troops are essentially different. For while in the one case any slight disarrangement would be easily rectified, in the other it would inevitably lead to a scramble. The source of such a change in the manner of motion under such circumstances, may be ascribed either to the delicacy of the manœuvre, or to the upsetting disturbance, but as a matter of fact, both of these causes are necessary. In the case of extreme delicacy an indefinitely small disturbance, such as is always to be counted on, will effect the change.

Under these circumstances we may well describe the condition of the troops in the simple manœuvre as stable, while that in the delicate manœuvre is unstable, *i.e.* will break down on the smallest disarrangement. The small disarrangement is the immediate source of the break-down in the same sense as the sound of a voice is sometimes the cause of an avalanche; but if we regard such disarrangement as certain to occur, then the source of the disturbance is a condition of instability.

All this is exactly true for the motion of water. Supposing no disarrangement, the water would move in the manner indicated in theory just as, if there is no disturbance, an egg will stand on its end; but as there is always slight disturbance, it is only when the condition of steady motion is more or less stable that it can exist. In addition then to the theories either of military tactics or of hydrodynamics, it is necessary to know under what circumstances the manœuvres of which they treat are stable or unstable. And it is in definitely separating these conditions that the method of colour-bands has done good service which will remove the discredit in which the theory of hydrodynamics has been held.

In the first place, it has shown that the property of viscosity or treacliness, possessed more or less by all fluids, is the general influence conclusive to steadiness, while, on the other hand, space and velocity are the counter influence: and the effect of these influences is subject to one perfectly definite law, which is that a particular evolution becomes unstable for a definite value of the viscosity divided by the product of the velocity and space. This law explains a vast number of phenomena which have hitherto appeared paradoxical. One general conclusion is, that with sufficiently slow motion all manners of motion are stable.

The effect of viscosity is well shown by introducing a band of coloured water across a beaker filled with clear water at rest. Now the water is quite still, I turn the beaker round about its axis. The glass turns but not the water, except that which is close to the glass. The coloured water which is close to the glass is drawn out into what looks like a long smear, but it is not a smear, it is simply a colour-band extending from the point in which the colour touched the glass in a spiral manner inwards, showing that the viscosity was slowly communicating the motion of the glass to the water within. To prove this I have only to turn the beaker back, and the colour-band assumes its radial position. Throughout this evolution the motion has been quite steady—quite according to the theory.

When water flows steadily it flows in streams. Water flowing along a pipe is such a stream bounded by the solid surface of the pipe, but if the water be flowing steadily we can imagine the water to be divided by ideal tubes into a fagot of indefinitely small streams, any of which may be coloured without altering its motion, just as one column of infantry may be distinguished from another by colour.

If there is internal motion, it is clear that we cannot consider the whole stream bounded by the pipe as a fagot of elementary streams, as the water is continually crossing the pipe from one side to the other, any more than we can distinguish the streaks of colour in a human stream in the corridor of a theatre.

Solid walls are not necessary to form a stream: the jet from a fire hose, the falls of Niagara, are streams bounded by a free surface.

A river is a stream half bounded by a solid surface.

Streams may be parallel, as in a pipe; converging, as in a conical mouthpiece; or when the motion is reversed, diverging. Moreover, the streams may be straight or curved.

All these circumstances have their influence on stability in a manner which is indicated in the accompanying table:—

*Circumstances conducive to*

| *Direct or Steady Motion.* | *Sinuous or Unsteady Motion.* |
|---|---|
| 1. Viscosity or fluid friction which continually destroys disturbances. (Treacle is steadier than water.) | 5. Particular variation of velocity across the stream, as when a stream flows through still water. |
| 2. A free surface. | 6. Solid bounding walls. |
| 3. Converging solid boundaries. | 7. Diverging solid boundaries. |
| 4. Curvature with the velocity | 8. Curvature with the velocity |

It has for a long time been noticed that a stream of fluid through fluid otherwise at rest is in an unstable condition. It is this instability which gives rise to the talking-flame and sensitive-jet with which you have been long familiar in this room. I have here a glass vessel of clear water in front of the lantern, so that any colour-bands will be projected on the screen.

You see the ends of two vertical tubes one above the other. Nothing is flowing through these tubes, and the water in the vessel is at rest. I now open two taps, so as to allow a steady stream of coloured water to enter at the lower pipe, water flowing out at the upper. The water enters quite steadily, forms a sort of vortex ring at the end which proceeds across the vessel, and passes out at the lower tube. Now the coloured stream extends straight across the vessel, and fills both pipes. You see no motion; it looks like a glass rod. The water is, however, flowing slowly along it. The motion is so slow, that the viscosity is paramount, and hence the stream is steady.

I increase the speed; you see a certain wriggling sinuous action in the column; faster, the column breaks up into beautiful and well-defined eddies, and spreads out into the surrounding water, which, becoming opaque with colour, gradually draws a veil over the experiment.

The same is true of all streams bounded by standing water. If the motion is sufficiently slow, according to the size of the stream and the viscosity of the fluid, it is steady and stable. At a certain critical velocity, which is determined by the ratio of the viscosity to the diameter of the stream, the stream becomes unstable. Under any conditions, then, which involve a stream flowing through surrounding water, the motion will be unstable if the velocity is sufficient.

Now, *one* of the most marked facts relating to experimental hydrodynamics is the difference in the way in which water flows along contracting and expanding channels; these include an enormously large class of the motions of water, but a typical phenomenon is shown by the simple conical tubes. Such a tube is now projected on the screen; it is surrounded with clear still water. The mouth of the tube at which the water enters is the largest part, and it contracts uniformly for some way down the channel, then the tube expands again gradually until it is nearly as large as at the mouth, and then again contracts to the tube necessary to discharge the water. I draw water through the tube, but you see nothing as to what is going on. I now colour one of the elementary streams outside the mouth; this colour-band is drawn in with the surrounding water, and will show us what is going on. It enters quite steadily, preserving its clear streak-like character until it has reached the neck where convergence ceases; now the moment it enters

the expanding tube it is altogether broken up into eddies. Thus the motion is direct in the contracting tube, sinuous in the expanding.

The hydrodynamical theory affords no clue to the cause why; and even by the method of colour-bands the reason for the sinuosity is not at once obvious. If we start the current suddenly, the motion is at first the same in both tubes, its change in the expanding pipe seemed to imply that here the motion was unstable. If so, this ought to appear from the equations of motion. With this view this case was studied, I am ashamed to say how long, without any light. I then had recourse to the colour-bands again, to try and see how the phenomena came on. It all then became clear: there is an intermediate stage. When the tap is opened, the immediately ensuing motion is nearly the same in both parts; but while that in the contracting portion maintains its character, that in the expanding portion changes its character. A vortex ring is formed which, moving forward, leaves the motion behind that of a parallel stream through the surrounding water.

If the motion be sufficiently slow, as it is now, this stream is stable, as already explained. We thus have steady or direct motion in both the contracting and expanding parts of the tube, but the two motions are not similar: the first being one of a fagot of similar elementary contracting streams, the latter being that of one parallel stream through the surrounding fluid. The first of these is a stable form; the second an unstable form, and, on increasing the velocity, the first remains, while the second breaks down; and we have, as before, the expanding part filled with eddies.

This experiment is typical of a large class of motions. Wherever fluid flows through a narrow, as it approaches the neck it is steady, after passing, it is sinuous. The same effect is produced by an obstacle in the middle of a stream; and very nearly the same thing by the motion of a solid object through the water.

You see projected on the screen an object not unlike a ship. Here the ship is fixed, and the water flowing past it; but the effect would be the same if we had the ship moving through the water. In the front of the ship the stream is steady, and so till it has passed the middle, then you see the eddies formed behind the ship. It is these eddies which account for the discrepancy between the actual and theoretical resistance of ships. We see, then, that the motion in the expanding channel is sinuous because the only steady motion is that of a stream through water. Numerous cases in which the motion is sinuous may be explained in the same way, but not all.

If we have a perfectly parallel channel, neither contracting nor expand-

elementary streams all in motion, but moving fastest at the centre. Here we have no stream through steady water. Now when this investigation began it was not known, or imperfectly known, whether such a stream was stable or not, but there was a well-known anomaly in the resistance to motion in parallel channels. In rivers, and all pipes of sensible size, experience had shown that the resistance increased as the square of the velocity, whereas in very small pipes, such as represent the smaller veins in animals, Poiseuille had proved the resistance increased as the velocity.

Now since the resistance would be as the square of the velocity with sinuous motion, and as the velocity, if direct, it seemed that the discrepancy could be accounted for if the motion could be shown to become unstable for a sufficiently large velocity. This suggested the experiment I am now about to produce before you.

You see on the screen a pipe with its end open. It is surrounded by clear water, and by opening a tap I can draw water through it. This makes no difference to the appearance, until I colour one of the elementary streams, when you see a beautiful streak of colour extend all along the pipe. The stream has so far been running steadily, and appears quite stable. I now merely increase the speed; it is still steady, but the colour-band is drawn down fine. I increase the colour and then again increase the speed. Now you see the colour-band at first vibrates and then mixes so as to fill the tube. This is at a definite velocity; if the velocity be diminished ever so little the band becomes straight and clear; increase it again, it breaks up. This critical speed depends on the size of the tube in the exact inverse ratio; the smaller the tube, the greater the velocity; also, the more viscous the water the greater the velocity.

We have then not only a complete explanation of the difference in the laws of resistance generally experienced, and that found by Poiseuille, but also we have complete evidence of the instability of parallel streams flowing between or over solid surfaces. The cause of the instability is as yet not explained, but this much can be shown, that whereas lateral stiffness in the walls is unimportant, inextensibility or tangential rigidity is essential to the creation of eddies. I cannot show you this, because the only way in which we can produce the necessary conditions without a solid channel, is by a wind blowing over water. When the wind blows over water, it imparts motion to the surface of the water just as a moving solid surface; moving in this way, however, the water is not susceptible of eddies. It is unstable, but the result of disturbance is waves. This is proved by an experiment long known, but which has recently attracted considerable notice. If oil be put on the surface it spreads out into an indefinitely thin sheet which possesses only one of the characteristics of a solid surface, it offers resistance, very slight,

but still resistance to extension and contraction. This, however, is sufficient to entirely alter the character of the motion. It renders the water unstable internally, and instead of waves, what the wind does is to produce eddies beneath the surface. This has been proved, although I cannot show you the experiments.

To those who have observed the phenomena of oil preventing waves, there is probably nothing more striking throughout the region of mechanics. A film of oil so thin that we have no means of illustrating its thickness, and which cannot be perceived except by its effect—which possesses no mechanical properties that can be made apparent to our senses—is yet able to entirely prevent an action which involves forces the strongest we can conceive, which upset our ships and destroy our coasts. This, however, becomes intelligible when we perceive that the action of the oil is not to calm the sea by sheer force, but merely, as by its moral force, to alter the manner of motion produced by the action of the wind, from that of the terrible waves upon the surface, into the harmless eddies below. The wind throws the water into a highly unstable condition, into what morally we should call a condition of great excitement. The oil by an influence we cannot perceive directs this excitement.

This influence, though insensibly small, is however now proved of a mechanical kind, and to me it seems that the phenomenon of one of the most powerful mechanical actions of which the forces of nature are capable, being entirely controlled by a mechanical force so slight as to be otherwise quite imperceptible, does away with every argument against the strictly mechanical sources of what we may call mental and moral forces.

But to return to the instability in parallel channels. This has been the most complete, as well as the most definite result of the colour-bands.

The circumstances are such as to render definite experiments possible. These have been made, and reveal a definite law of the instability, which law has been tested by reference to all the numerous and important experiments on the resistance in channels by previous observers; whereupon it is found that waters behave in exactly the same manner whether the channel, as in Poiseuille's experiment, is of the dimensions of a hair, or whether it be the size of a water main or of the Mississippi; the only difference being that in order that the motions may be compared, the velocity must be inversely as the diameter of the pipe. But this is not the only point explained if we consider other fluids than water. Some fluids, like oil or treacle, apparently flow more slowly and steadily than water. This, however, is only in smaller channels; the critical velocity increases with the viscosity of the fluid. Thus, while water in comparatively large streams is always above its critical velocity, and the motion always sinuous, the motion of treacle in streams

But if nature had produced rivers of treacle the size of the Thames, for instance, the treacle would have flowed just like water. Thus, in the lava streams from a volcano, although looked at close the lava has the consistence of a pudding, in the large and rapid streams down the mountain sides the lava flows as freely as water.

I have now only one circumstance left to which to ask your attention. This is the effect of the curvature of the stream on the stability of the fluid.

Here again we see the whole effect altered by very slight causes.

If water be flowing in a bent channel in steady streams, the question as to whether it will be stable or not turns on the variation in the velocity from the inside to the outside of the stream.

In front of the lantern is a cylinder with glass ends, so that the light passes through in the direction of the axis. The disk of light on the screen being the light which passes through this water, and is bounded by the circular walls of the cylinder.

By means of two tubes temporarily attached, a stream of coloured water is introduced right across the cylinder extending from wall to wall; the motion is very slow, and the taps being closed, and the tubes removed, the colour-band is practically stationary. The vessel is now caused to revolve about its axis. At first, only the walls of the cylinder move, but the colour-band shows that the water gradually takes up the motion, the streak being wound off at the ends into a spiral thread, but otherwise remaining still and vertical. When the spirals meet in the middle, the whole water is in motion, but the motion is greatest at the outside, and is therefore stable. The vessel stops, and gradually stops the water, beginning at the outside. If the motion remained steady, the spirals would unwind, and the streak be restored. But the motion being slowest at the outside against the surface, you see eddies form, breaking up the spirals for a certain distance towards the middle, but leaving the middle revolving steadily.

Besides indicating the effect of curvature, this experiment really illustrates the action of the surface of the earth on the air moving over it; the varying temperature having much the same influence as the curvature of the vessel on stability. The air is unstable for a few thousand feet above the surface, and the motion is sinuous, resulting in the mixing of the strata, and producing the heavy cumulus clouds; but above this the influence of temperature predominates, and clouds, if there are any, are of the stratus-form, like the inner spirals of colour. But it was not the intention of this lecture to trace the two manners of motion of fluids in the phenomena of Nature and Art, so I thank you for your attention.

# 49.

## ON THE THEORY OF THE STEAM-ENGINE INDICATOR*.

[*From the* "Proceedings of the Institution of Civil Engineers, 1885."]

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## "ON THE THEORY OF THE STEAM-ENGINE INDICATOR AND THE ERRORS IN INDICATOR-DIAGRAMS."

By OSBORNE REYNOLDS, M.A., LL.D., F.R.S., M. Inst. C.E.

### SECTION I.—INTRODUCTION.

IN 1856 Hirn published an experimental comparison of the indicated work, with the work done on the brake, and came to the conclusion that, whatever might be the cause, the indicated work was too small, being only just equal to the brake-work, leaving no margin for the air-pump and the friction of the engine.

This conclusion of Hirn's seems to have excited little notice. Rankine mentions it in "The Steam-engine," but expresses doubt whether it accords with subsequent experience, particularly that of marine engines.

Since that time many engine-experiments have been made. It does not appear, however, that these have been made with a view to verify the indicator, but rather that the indicator-diagrams have been taken as data from which to determine the efficiency of the engines; nor has, so far as the Author is aware, any definite theory of the disturbances to which the diagram is subjected as yet been published.

The importance of studying the disturbances, or, in other words, the errors in the diagrams, becomes evident, when it is considered to what an

* Joint paper with A. W. Brightmore, D.Sc.

extreme extent the indicator is now trusted to give a true measure of the work on the piston. In ninety-nine cases out of every hundred, there is absolutely no check within 20 or 30 per cent. In some classes of engines (winding and pumping) the work they are performing is of a measurable kind, but rarely or never is the work measurable to within 5 or 10 per cent. The only work which is definitely measurable is that done on the friction-brake as used by the Royal Agricultural Society; and even then, although the brake may give a measure of the actual work to within 1 per cent. or less, it does not furnish a check on the indicator to within from 5 to 20 per cent., for between the work measured by the indicator and that measured by the brake, is the unknown work done in overcoming the resistance of the engine. This, which varies from 5 to 20 per cent., is an absolutely unknown quantity, except in so far as it is found by subtracting the brake-power from the indicated-power, and hence furnishes no check within its own magnitude on these quantities.

There is thus absolutely no check on the indicator, which is now made the sole standard, not only of the performance, but of the value of engines. Considering what this means in mere money, where, as in the case of marine engines, large sums often depend on a margin of power which is a very small percentage of the whole, it becomes evident how important it is that the exact extent to which these instruments can be trusted should be well known. Yet, in spite of Hirn's warning, the results of the indicator appear to be accepted without question, solely on the ground of their general consistency, of the simplicity of its apparent action, and the excellence of its construction.

On close examination, it appears in this case, as in others, that the apparent simplicity of action is due to the obscurity of certain facts; for example, the possible stretching of a piece of string; and that, taking all the circumstances which may affect the diagram into account, its action is by no means a simple matter. It may be that, in some cases, these disregarded circumstances only produce an inappreciable effect, but even this cannot be known as long as they are disregarded.

The theory of the indicator has now been taught for many years in the engineering classes in Owens College, Manchester, and the calculations to a certain extent have been verified by experiments on the College engine. This engine, though by no means of a high class, has been rendered well adapted for this purpose by the addition of a brake-dynamometer and a speed-indicator. It has long been the Author's intention to publish this theory, but this has been deferred for want of time to make a sufficiently extensive series of experiments. Last year Mr Brightmore, Berkeley

carried them out very successfully. The results of his investigation appear to be of considerable importance, and as their interpretation depends on the theory, an account of this is submitted, to be read in conjunction with a Paper by Mr Brightmore.

For the diagram to be exact, it is necessary—

1. That the pencil of the indicator shall, under every change of pressure, instantly move through a distance in exact proportion to the change of pressure in the cylinder of the engine.

2. That the paper on which the diagram is taken shall change its position in exact accordance with the change of position of the piston of the engine.

The first of these is accomplished, so far as it is accomplished, by holding the piston of the indicator by a spring, carefully adjusted, so that the deflection is proportional to the load; and as there is no great difficulty in making a spring such that this proportion shall be maintained so long as the temperature is constant, and in making the instrument so that the temperature of the spring shall be 212° Fahrenheit, there is no reason to suppose that the indications of the indicator are not within 1 per cent. of the forces at each instant deflecting the spring.

But in order that these indications may correspond with the pressures of steam, it is necessary that there should be no other forces acting on the spring. Such forces, however, arise from the inertia of the weights to be moved and the friction, notably that entailed by the necessity of pressing the pencil on the paper.

In assuming the indicator as accurate, it is supposed that the forces resulting from inertia and friction are too small to be perceived; whether this is so or not, can only be ascertained by considering these forces.

The second of these conditions of exactness is accomplished by connecting a revolving drum, by means of mechanism, with the piston of the engine, so that, if there is no yielding in the mechanism, the drum will revolve through distances exactly proportional to the distance moved by the piston of the engine. There is no difficulty in arranging mechanism which will secure the corresponding motion of two bodies, if the forces can be kept constant on the mechanism. This is attempted in the indicator by pulling the drum in one direction by a spring, and connecting it with the piston by means of a cord wound round the drum, so that the spring always keeps the string in tension. Since all strings—in fact, all matter—is elastic, in order that the position of the drum may always correspond

exert a constant force in all positions of the drum, and that there shall be no other forces.

As a matter of fact, however, the springs used do not exert a constant force, the force increasing as the drum is moved against the spring; and further, there are forces, namely, the forces arising from the inertia of the drum and the friction of the mechanism, principally of the drum on its supports. The diagram will, therefore, only be accurate in so far as these unequal forces are small; and the effect of these forces can only be ascertained after careful consideration.

It thus appears that there are five principal causes of disturbance; two of these (1) and (2) affect the motion of the pencil, and three (3) (4) and (5) the motion of the drum.

(1) The inertia of the piston of the indicator and its attached weights.

(2) The friction of the pencil on the paper and its attached mechanism.

(3) Varying action of the spring.

(4) Inertia of the drum.

(5) Friction of the drum.

These will be separately considered.

## Section II.—Disturbances on the Pencil.

(1) *The effect of the inertia of the Pencil and its attached Mechanism.*—This, although obvious enough in a general way, presents the same problem as the planetary disturbances, which can only be definitely expressed by means of some form of mathematics. As the general solution of the problem is well known to mathematicians, and is unintelligible to those who are not, it will be best here to omit all the steps, and to proceed at once to the results, about which there can be no question.

These results may be best expressed in symbols, of which the meaning is as follows; taking lbs., feet, and seconds as general units, then put—

$i$ for the indicated pressure at any instant;

$p$ for the actual pressure corresponding to $i$;

$w$ for the weight of any particular piece of mechanism attached to the pencil;

$r$ for the ratio which the motion of this weight bears to the motion

$W$ for $\Sigma(r^2w)$ where $\Sigma$ expresses the sum of all the quantities in the brackets;

$g$ for 32·2, the acceleration of gravitation;

$e$ for the number of lbs. to the inch on the diagram;

$a$ for the area of the piston of the indicator in square inches;

$s$ for the ratio of the motion of the pencil to that of the piston of the indicator.

In Richards' indicator—

$$a = 0{\cdot}5;$$
$$W = 0{\cdot}33;$$
$$s = 4.$$

For other indicators these may be found by measurement.

The relation between $i$ and $p$, in so far as it is affected by inertia, is expressed by the equation—

$$\frac{W}{12esg} \cdot \frac{d^2i}{dt^2} + ai = ap \qquad \ldots\ldots(1).$$

The general solution to this equation is well known, and without going into detail, it will be sufficient to give the solution for the case, which is, $N$ being the number of revolutions of the engine per minute—

$$i - p = (p_1 - p_3)\frac{\pi N^2 W}{900 \times 12aesg}\left\{A_1 \sin\frac{\pi N}{30}t + A_2 \sin\frac{2\pi N}{30}t + \&c.\right\} + C \sin\sqrt{\frac{12aesg}{W}} \cdot t \qquad \ldots\ldots(2).$$

$t$ expresses time in seconds;

$p_1$ greatest pressure;

$p_3$ least back pressure;

$A_1$, $A_2$ are coefficients depending on the shape of the true diagram;

$C$ is a constant depending on the disturbed state of the pencil.

From equation (2) it appears that the effect of inertia is to cause two disturbances, corresponding to the two terms on the right-hand side. These may be considered separately.

The first term has the factor

$$A_1 \sin\frac{2\pi N}{60}t + A_2 \sin\frac{4\pi N}{60}t + \&c.,$$

which will go through a complete cycle when $t$ changes by

hat is, by the time of revolution of the engine in seconds. This disturbance ill be the same during each revolution of the engine, and will be called he cyclic disturbance.

Given the shape of the true diagram, it would be possible to determine $l_1$, $A_2$ so as to find from equation (2) the value of $i-p$. But this would e a very complicated piece of work for such an irregular curve as the iagram, and as the object is not so much to find the magnitude as to find hen this is small, it is sufficient to consider a circular or elliptic diagram; or such a diagram it is found that the mean difference of $i$ and $p$, written $\overline{i-p}$, is given by

$$\overline{i-p} = \pm \frac{\pi^2 N^2 W}{12 \times 900 ages} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (3),$$

he positive sign to be taken for the forward stroke and the negative for he backward.

If this effect were large compared with the mean acting pressure $\frac{p_1 - p_3}{2}$, then in all probability the area as well as the form of a true iagram would be seriously disturbed; but if this effect is small, say 1 per ent. in the case of the oval, it will be small for the true diagram. Hence he increase of area is less than 1 per cent. so long as

$$\frac{2\pi^2 N^2 W}{12 \times 900 aesg} < 0{\cdot}01,$$

nd from this it is found that the cyclic disturbance may be 1 per cent. r Richards' indicator when $N$ and $e$ have the values in Table I., and as is disturbance increases as $\frac{N^2}{e}$, its possible values for all other cases ay be found.

ABLE I.—ENGINE SPEEDS AT WHICH THE ENLARGEMENT OF THE DIAGRAM BY INERTIA BECOMES 1 PER CENT. WITH THE RICHARDS' INDICATOR USED IN THIS INVESTIGATION.

| Scale of Diagram in lbs. to an inch. | Number of Revolutions. |
|---|---|
| 20 | 166 |
| 30 | 203 |
| 40 | 237 |
| 50 | 262 |
| 60 | 288 |
| 70 | 312 |
| 80 | 332 |
| 90 | 352 |

disturbance would be to increase the vertical diameter, as shown by the dotted line in Fig. 1. What it would be on the true diagram is very difficult to express, except to say that it would be to round-off all corners and increase its size much in the same way as in the oval.

The second term in equation (2) represents a disturbance which goes through its cycle in an interval of $\tau$ seconds, where

$$\tau = 2\pi \sqrt{\frac{W}{12aesg}} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots(4).$$

This may be called the vibratory disturbance. The period represented by $\tau$ is that in which the pencil vibrates when disturbed. Such disturbances are introduced by the departure of the diagram from the true ellipse.

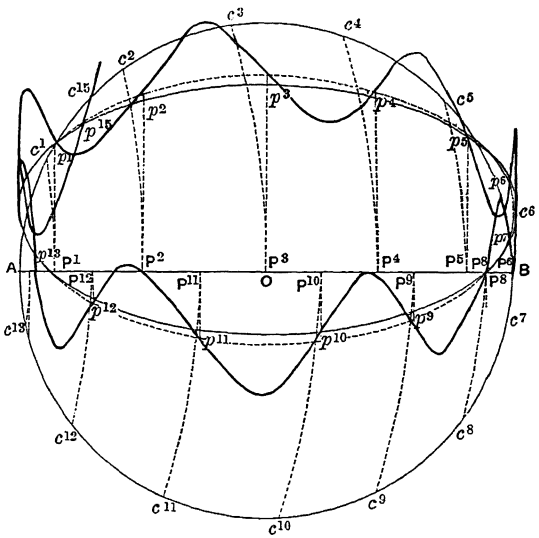



Fig. 1.

The result of such disturbance is shown by the waving line in Fig. 1.

The time occupied in completing each one of these waves as from $p_1$ to $p_3$ is constant, viz. $\tau$ equation (4).

Hence the number of waves in a complete revolution is given by

$$n = \frac{\frac{60}{N}}{2\pi \sqrt{\frac{W}{12aesg}}} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots(5).$$

For Richards' indicator—

$$n = 486 \frac{\sqrt{e}}{N}.$$

In the diagram, owing to the unequal motion of the engine-piston, the engths of these oscillations increase from the ends to the middle. If, owever, a circle be drawn on the atmospheric line $AB$, having the extreme ength of the diagram as diameter, this may be taken to represent the rank-circle on the same scale as $AB$ represents the stroke. Then if the oints $p_1$, $p_2$ &c., in which the waving line cuts the mean line, are first rojected perpendicularly on to $AB$ in $P_1$, $P_2$ &c., and then $P_1$, $P_2$ projected y means of a radius to represent the connecting-rod on to the crank-circle n the points $c_1$, $c_2$ &c., it will be found that the arcs $c_1c_2$, $c_2c_3$, are all equal, ince the crank turns through equal arcs in equal times.

But for the effects of friction these oscillations, once set up, would go on or ever; so that even at low speeds a fair diagram would be impossible.

By friction the oscillations are gradually destroyed, so that they are nore or less localized to the neighbourhood of the points at which they re produced, *i.e.*, the points where the curvature in the true diagram is harp, particularly at the point of admission where the rise of pressure eing instantaneous acts the part of a live-load, and forces the pencil twice s far as it ought to go. This sets up a series of oscillations.

It is seldom that the time of oscillation is exactly commensurable with nat of revolution, so that if all the oscillations set up in one revolution re not destroyed by friction before the revolution is complete, the pencil will ot describe the same path in two successive revolutions, a fact frequently bserved in diagrams taken from locomotives at high speed.

The error which these oscillations cause in the area of the diagram epends on their magnitude, but also, and to a greater extent, on the small- ess of $n$, the number in a revolution. But the evil of these oscillations not so much an effect on the area, which, even did they exist to the xtent shown in Fig. 1, in which $n$ is between six and seven, would still e small. It is the disfigurement and the confusion they produce in the agram which limits the usefulness of the instrument to cases in which ey can be avoided.

So long as there are thirty of these oscillations in a cycle the necessary id friction of the indicator-piston will so far reduce them as to render fair diagram possible, but when the number approaches fifteen it becomes cessary to call in the aid of considerable pencil-pressure to prevent their stroying the form of the diagram; and when $n$ is as low as ten it is all

has never been able to produce a respectable diagram when the number is as low as ten, but accounts are continually published in which from the speed of the engine and strength of the springs the value of $n$ must be below this. In such cases the pressure of the pencil must have been very great, and it becomes a question how far this cure is a less evil than the disease.

(2) *The Friction arising from the Pressure of the Pencil.*—This always acts to oppose the motion of the pencil, and therefore renders it too large during expansion and exhaust, and too small during compression and admission, and thus the general effect is to increase the size of the diagram.

In order to understand this effect, it is necessary to notice that this friction consists of two parts: (1) That of the pencil on the paper. (2) That of the mechanism, caused by sustaining the pressure of the pencil.

The effect of the actual friction of the pencil is greatly reduced by the motion of the paper. Thus, if while the drum is at rest, the pencil be lifted quietly it will be possible for friction to hold it above or below the atmospheric-line, by a distance depending on the pressure. If, when placed as high or low as it will stand, the drum be moved by the cord, the pencil at once approaches the atmospheric-line, describing a line as shown in Fig. 2

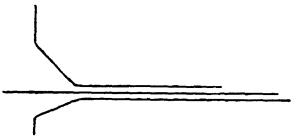


Fig. 2.

at first sloping toward the atmospheric-line at 45°, but finally becoming parallel. Fig. 2 represents the results with a 20-lb. spring; the distance at starting was equal to about 4 lbs., but eventually became about $\frac{1}{2}$ lb., at which it remained constant.

The distance at starting represents the extreme friction of pencil and mechanism. The final distance that of the mechanism alone.

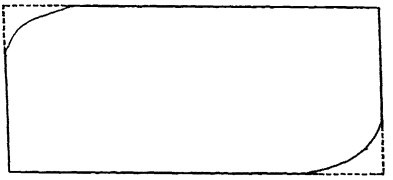


Fig. 3.

he pencil to be behind its true position, by a quantity which will bear to he extreme distance, a ratio equal to the sine of the inclination of the curve is describing at the instant, to the atmospheric-line.

The effect of this alone on a rectangular diagram would be to round off he corners as in Fig. 3.

With an early cut off, the effect would be as shown in Fig. 4.

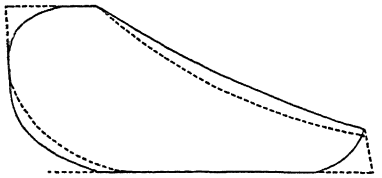


Fig. 4.

The friction of the mechanism causes the pencil to be behind its true osition by a nearly constant quantity, and hence during expansion and xhaust the pencil will be too high, and during compression and admission he pencil will be too low. This is shown in Fig. 5. Its effect on the area f the diagram is therefore not very great.

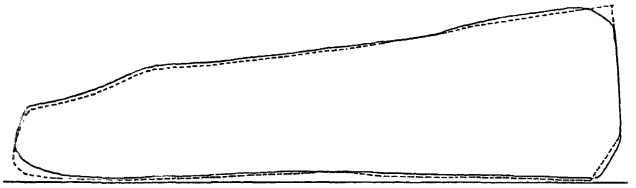


Fig. 5.

The magnitude of these effects, taken together, on the area of the iagram, depends on the construction of the instrument and on pencil-ressure. From numerous experiments with Richards' and Thomson's ndicators, it was found that a comparatively slight alteration of pencil-ressure from that just sufficient to mark the diagram, would cause an xcess of 0·5 lb. during expansion, and an equal fall during compression. hile if pencil-pressure were made sufficient to prevent serious oscillations hen $n = 15$, the mean acting pressure was affected by as much as 1·5 lb. hus it would appear possible to make a difference of as much as 5 per cent. a locomotive in mid-gear by pencil-friction.

The conclusions, then, as regards the motion of the pencil, are, that the eneral effects of inertia and friction are both to increase the size of the

the effect of inertia is less than 1 per cent., but that if $n$ is less than 30, oscillations will show themselves unless the pencil-friction be increased. They may, by this, be kept down till $n = 15$, but not farther, and then the necessary friction will affect the area of the diagram about 5 per cent. A speed, therefore, which makes $n = 15$ is about the limiting speed at which diagrams can be taken accurate to 5 per cent., while for the diagrams to be sensibly accurate and free from oscillation the speeds must not be greater than will make $n = 30$.

These speeds for Richards' indicators are given in Table II.

TABLE II.

| | $N$ | |
|---|---|---|
| $e$ | $n=30$ | $n=15$ |
| 20 | 69 | 138 |
| 30 | 85 | 170 |
| 40 | 99 | 198 |
| 50 | 105 | 210 |
| 60 | 120 | 240 |
| 70 | 130 | 260 |
| 80 | 139 | 278 |
| 90 | 147 | 294 |
| 100 | 155 | 310 |

## SECTION III.—DISTURBANCES ON THE DRUM.

These are the disturbances (3), (4), (5), section (1). They arise from the elasticity of the cord and mechanism connecting the drum with the piston of the engine. In order to express them definitely—

$l$ is the indicated length of the diagram in inches;

$y$ the yielding of the mechanism in inches per lb. of the tension;

$I$ the moment of inertia of the drum.

(3) *The Inertia of the Drum.*—If the obliquity of the connecting-rod of the engine be disregarded, and $x$ be put for the distance $OP$ (Fig. 1), the force arising from inertia is proportional to $N^2x$ and the disturbance arising from this cause will be $yIN^2x$. And as $x$ will be positive or negative according as $P$ is to the right or left of $O$, the diagram will be uniformly elongated.

this elongation at the back-end and diminish it at the front, increasing the area of the back-end diagram, and diminishing that of the front somewhat, but it is small unless the connecting rod is very short.

(4) *The effect of the varying Stiffness of the Spring.*—Let $q$ be the difference of tension of the spring at the extreme ends of the diagram. Then the disturbance of the point $P$ will be

$$-\frac{qyz}{l}.$$

This effect is therefore opposite to that of (3), and the joint effect will be

$$\left(IN^2 - \frac{q}{l}\right) yx,$$

and since $IN^2$ will be zero at small speeds, and it increases as the square of the speed, when the speed is low the diagram will be $qy$ too short, but as the speed increases this shortening will diminish until at some speed $IN^2 = \frac{q}{l}$, and for higher speeds the diagram will be elongated. With the Richards' indicator, the critical speed appears to be $150 = N$. In most diagrams these effects are apparent, but, except when the connecting-rod is short, they do not affect the indicated pressure.

(5) *The effect of the Friction of the Drum.*—Let $F$ be the tension on the string necessary to overcome the friction of the drum in either direction.

Then during the forward stroke the string will be stretched from this cause $yF$, and during the backward stroke it will be shortened $yF$. The effect will be to place the drum always behind its true position by $yF$. This is shown in Fig. 6.

$Ac_1c_2$, &c. represent the positions of the crank on its circle, as explained in reference to Fig. 1; but in this case $c_1c_2$, &c. are chosen so as to correspond with the equidistant positions of the piston. Projecting $c_1c_2$ with the connecting-rod as radius on to the atmospheric-line the points are obtained in which, for a true diagram, the pencil would be when the crank was in the positions $c_1c_2$, &c., but owing to the cause under consideration, as the crank moves from $A$ towards $B$, the pencil will be (at the points ♀) at a distance $Fy$ behind its true position, and from $B$ to $A$ (at the points ♂) $Fy$ behind its true position.

When the crank arrives at $A$ from $B$ the pencil will not, as it should, arrive at $A$, but at the point (marked ♂ $A$) distant $Fy$ towards $B$. This is the end of the indicated stroke, and here the drum will remain until the piston has reversed its position (with regard to ♀ $A$), that is, until the crank

has reached $A'$; hence, as the crank moves from $A$ to $A'$, the drum will be stationary, and then move off distant $Fy$ behinds its true position, which

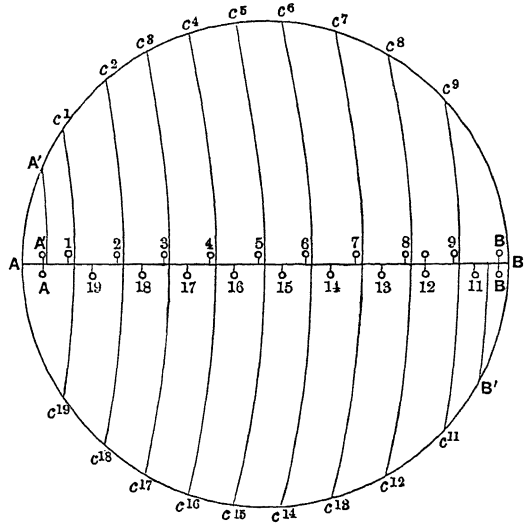



Fig. 6.

distance it will maintain until the crank reaches $B$, when the drum will again rest (at ♀ $B$) until the crank has reached $B'$, when it will again start towards $A$ distant $Fy$ behind its true position.

The effect of this disturbance on a diagram is very great.

In the first place, it must be noticed that, supposing $y$ the same, *i.e.*, the length of cord used the same, the effect will be the same on both diagrams. In starting from either end the drum does not move until the engine-piston has moved through a distance $Fy$, and the crank has moved through $AA'$ or $BB'$, so that, however the pencil of the indicator may have been moved, in this interval it will merely describe a vertical line (a very common feature of diagrams). For the rest of the motion the drum will move at a constant distance behind its true position, so that the two halves of the diagram will be of the right shape, but wrongly placed with regard to each other. If, then, the pressure at the ends of the true diagram rose and fell instantaneously, so that the extreme ends are vertical, as shown by the line $ACBD$ in Fig. 7, the indicated diagram $A'CBD'$ would be obtained from the true diagram by simply giving a horizontal shift (as in Fig. 7) $AA' = 2Fy$ to the lower half of the diagram-line $ADB$.

The apparent cut-off is then shortened by

$$AA' = 2yF \quad \ldots\ldots\ldots\

The area is diminished by

$$\frac{p_1 - p_3}{e} AA';$$

and putting $i_m = \text{area} \frac{e}{l}$.

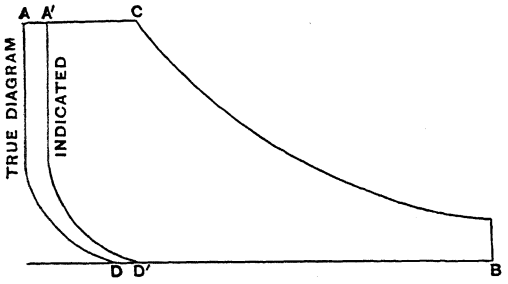



Fig. 7.

The effect $f$ on $p_m$, or $p_m = i_m + f$, is given by

$$f = (i_1 - i_m - i_3) \frac{2Fy}{l + 2Fy} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (7).$$

It is thus seen that $f$ increases with the expansion and compression, and is zero when these are zero.

This effect of the friction of the drum appears to be so important, and to have been so entirely unperceived, that it may be well to introduce a short discussion of the circumstances on which it depends, and on its effects.

The circumstances are the elasticity of the cord and the friction of the drum, and the important question is, how far these exist in the ordinary indicators? In answer to this, it may be said that the diagrams, which led to the discovery of this effect, were taken with an indicator which had been in constant use for several years. It was in apparently perfect condition, and the diagrams did not differ essentially from those which had been previously taken. The cord was one which was supplied by the maker. The manner of the discovery was as follows: For years the Author had pursued in the class the method of testing the vibrations of the indicator-pencil by projecting them on to the crank-circle, as shown in Fig. 1, and he had all along noticed that the first oscillation fell short, and shorter in the back-diagram than the front. The cause of this was not obvious, as there seemed to be several possible explanations, and it was partly with a view to determine this cause that Mr Brightmore's investigation was commenced. A slight error in the reducing-rod, which had a fixed centre and a slot in which a stud in the slide-block worked, was altered at Mr Brightmore's

suggestion. This, however, did not get rid of the effect. A new cord obtained from the makers was substituted for the old one, and the effect was found to be much enhanced, the new cord being more elastic than the old one. This reduced it to the stretching of the cord, but it was only after carefully working out the effect of the inertia of the drum, and it was seen this effect was to lengthen, not shorten, the first oscillation at the back-end, that it occurred to the Author to look to the friction. The indicator was then taken to pieces, cleaned and oiled; then the effect was much reduced. Several new wires and cords were used which gave less effects, and eventually the steel wire was adopted by Mr Brightmore as the best. The test supplied by the oscillations could only be applied to diagrams taken at high speeds, and the test furnished by the effect upon area was vague. What was wanted was an independent means of determining the simultaneous positions of the drum and the engine-piston. As the best method of meeting this, it was decided to arrange an electric-circuit through the pencil to the drum, with sufficient electromotive force to prick the paper, making the engine-piston close this circuit at eleven definite equidistant points in its motion backwards and forwards. After some difficulty this was successfully carried out by Mr Brightmore and Mr Foster. In this way the stretching of the cord during the backward and forward strokes was definitely ascertained by Mr Brightmore. Taking the smallest results obtained with a cord, it appears from these experiments that the least difference of stretching was to make

$$2Fy = 0{\cdot}05C \text{ in inches} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (8),$$

where $C$ is the length of the cord in feet; so that there is obtained from equation (7)

$$f = (i_1 - i_m - i_2)\frac{0{\cdot}05C}{l + 0{\cdot}05C} \quad \ldots\ldots\ldots\ldots\ldots\ldots\ldots\ldots (9).$$

This equation gives the value of $f$ or $p_m - i_m$ for any diagram in terms of the length of the cord, on the assumption that the stretching is the same per foot of cord. The length of cord is generally 1·5 times the stroke for the front-end, and 2·7 times for the back-end, or 2·1 for both, hence putting $S$ for the stroke in feet

$$f = (i_1 - i_m - i_2)\frac{0{\cdot}075S}{l + 0{\cdot}075S} \quad \ldots\ldots\ldots\ldots\ldots\ldots (10)$$

for the front-end,

$$f = (i_1 - i_m - i_2)\frac{0{\cdot}135S}{l + 0{\cdot}135S} \quad \ldots\ldots\ldots\ldots\ldots\ldots (11)$$

for the back-end, or

$$f = (i_1 - i_m - i_2)\frac{0{\cdot}105S}{l + 0{\cdot}105S} \quad \ldots\ldots\ldots\ldots\ldots\ldots (12)$$

$$S = 1\cdot5;$$

$$l = 5\cdot0;$$

$$i_1 - i_3 = 30\cdot0;$$

$$i_m = 23\cdot0.$$

From (12)

$$f = 0\cdot24;$$

or

$$\frac{f}{i_m} = 0\cdot01.$$

In a locomotive-diagram, Fig. 8, published in *Richards' Indicator*, by Porter,

$$S = 2;$$

$$l = 4;$$

$$i_1 - i_3 = 105;$$

$$i_m = 40;$$

$$f = 3\cdot25;$$

$$\frac{f}{i_m} = 0\cdot08.$$

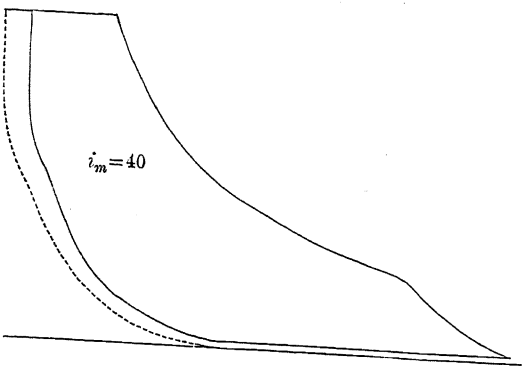



Fig. 8.

In the case of a condensing-engine $S = 3\cdot5$, cutting-off at apparently $\frac{1}{10}$,

$$\frac{f}{i_m} = 0\cdot2;$$

and in the case of a compound-engine expanding ten times

$$\frac{f}{i_m} = 0\cdot10.$$

These would seem to be the smallest results that can have occurred in ordinary practice. The conclusion, however, that hitherto the normal indicated power from engines has been from 10 to 20 per cent. too small is one which must be received with hesitation, or must wait for verification. Yet it may be pointed out that there are not wanting independent evidences of such an effect. There are features common to most diagrams which are shown in this investigation to be due solely to this effect.

(i) In diagrams taken from engines at high speeds the admission-line would not but for this effect be vertical. It would show a certain amount of detail, and the first oscillation would not have a sharp top. They would be as shown in Fig. 9, whereas they commonly are as in Fig. 10.

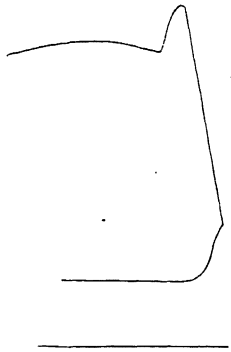


Fig. 9.

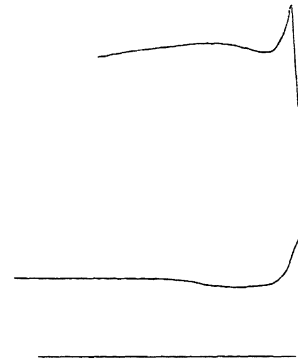


Fig. 10.

(ii) It is commonly found that the expansion-line is above the true expansion-line for the steam allowing for clearance. This fact has been much commented upon, and is sometimes assumed to indicate leaking valves, and sometimes a large amount of evaporation from the jacket, either of which circumstances may explain some rise of the expansion-line towards the end of the stroke, but it is difficult to see how they can explain the rise from cut-off which is usually observed. Now this apparent rise in the curve of expansion is exactly what would result if the apparent cut-off were too early, and this is the result of the effect that has been considered. The author has tried several diagrams, and he finds that, correcting the cut-off by formula 6, the expansion-line comes out very close indeed to the true curve.

(iii) In making these comparisons the explanation of another feature of diagrams became apparent. When the two diagrams are traced on the same card there is sometimes seen a want of symmetry about them, and almost invariably when this is the case the cut-off is shorter on the back

drum, supposing the cord for the back-diagram longer than that for the front. Where this is the case the relative lengths of the cord are about 1 to 1·8.

These observations are all illustrated in Fig. 11, which represents a facsimile diagram from *Richards' Indicator*.

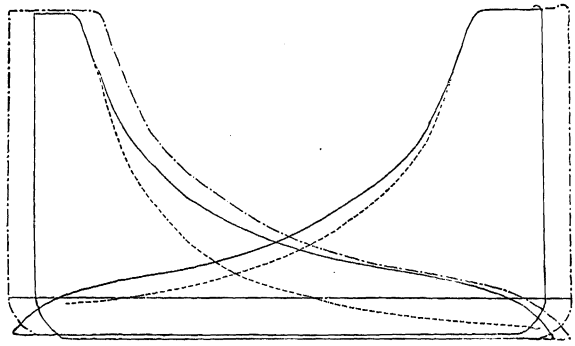


Fig. 11.

To test this diagram a tracing was taken, and reversed so that the front-diagram was superimposed on the back. It was then observed—

(*a*) That the diagrams were of different lengths, and the difference was about the same as the difference in cut-off.

(*b*) That notwithstanding the apparent cut-off in the back-diagram is to that in the front in the ratio of 2 to 3, the expansion-line of the back-diagram was exactly the same shape as that of the front.

(*c*) That if the diagrams were restored by formula 8, supposing the lengths of cords used to have been 5 feet and 9 feet, the diagrams became exactly similar, and, allowing 2 per cent. clearance, the expansion-line comes to be the true expansion-line for that cut-off. This rearrangement is shown in the dotted lines in Fig. 11, the mean pressure from which is 14 per cent. larger than from the original diagrams.

Such instances as these seem to sufficiently establish a *primâ facie* case against the confidence which appears to be at present placed in the accuracy of indicator-diagrams. But, in conclusion, the author would state that he should be very disappointed if anything in this investigation should have the effect of diminishing reliance on the indicator itself. He would have the instrument treated as other instruments have been treated, and instead of its results being assumed accurate, he would have it the object of careful study and experimental investigation, so that the limits of its wonderful perfection may be exactly known, and that reliance placed on it which such knowledge must afford.

# 49 A.

## EXPERIMENTS ON THE STEAM-ENGINE INDICATOR.

By ARTHUR WILLIAM BRIGHTMORE, B.Sc., Stud. Inst. C.E.,
Late Berkeley Fellow in Owens College, Manchester.

THE object of these experiments was to ascertain definitely to what extent certain disturbing causes, which exist in the indicator, affect the diagram.

These disturbing causes are:—

1st. The necessary inaccuracy of the indicator springs, when cold or hot.

2nd. The effect of the inertia of the piston and parallel-motion bars on the area.

3rd. The effect of the oscillations of the spring on the diagram, and the extent to which these may be reduced without sensibly altering its area.

4th. The effect produced by the stretching of the indicator-cord. To get rid, as far as possible, of the error due to this cause, in the experiments relating to the second and third causes, a thin steel wire (B. W. G. 22) was used instead of a cord.

The following is a description of the apparatus employed:—

### INDICATOR.

The indicator was an ordinary Richards indicator, made by Elliott Bros., London; having Watt's parallel-motion for magnifying the deflection of the spring. Springs by different makers were used.

### ENGINE.

The engine employed was the one which is used for the Owens College workshop. It was not chosen on account of any particular adaptability for the purpose; in fact, in some of the experiments, although it fulfilled the

requirements, the results were not so marked as they would have been, had the point of cut-off been earlier; but it was necessary in the experiments to have complete control over the engine, and to be able to run it with the brake on only, and the College engine presented these facilities.

It is a non-condensing engine, with 9-inch cylinder, 18 inches length of stroke, and a fly-wheel 16 feet in circumference. The point of cut-off is towards the end of the stroke. It works up to a boiler-pressure of about 47 lbs. on the square inch, and to a speed of about 150 revolutions per minute.

## Reducing-Mechanism.

In order to give the paper-drum a reduced motion of the piston, the wire employed to rotate the drum was attached to a rod, one end of which turned on a pin in the cross-head, and the other end worked in a slot, fixed vertically over the middle position of the cross-head pin, as shown in Fig. 12.

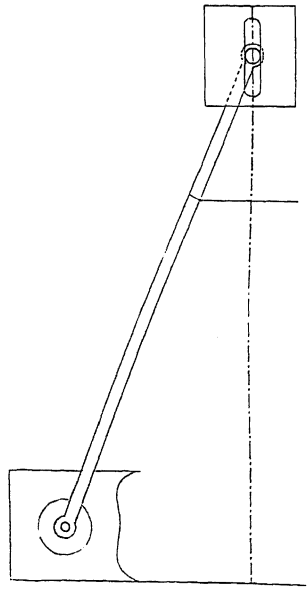


Fig. 12. Mechanism for Reducing the Motion of the Piston.

By this method of reducing the motion of the piston of the engine, the only error that comes in is due to the slight change of inclination of the wire.

## Brake.

The work done was measured by the friction-brake used in the class experiments at Owens College.

It consists of small flat blocks of wood threaded on a cat-gut rope, and is passed round the fly-wheel. To one end of this rope a board, of which the other extremity rests on the ground, is fastened; and the load is placed on the board close to its attachment to the brake. The other end of the brake is attached to a spring-balance, which measures the tension on it; the arrangement is shown in Fig. 13.

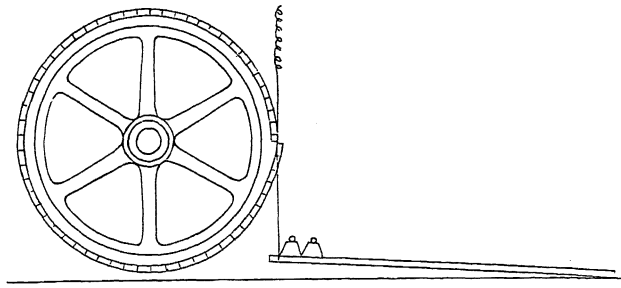


Fig. 13. FRICTION-BRAKE.

Thus, the rate of work was obtained by multiplying the difference of the tensions at the two ends by 16 feet (the circumference of the fly-wheel).

### SPEED-INDICATOR (FIG. 14).

This was also a class instrument. It consists of a small paddle-wheel fixed on a vertical axis, in a small circular box containing coloured liquid.

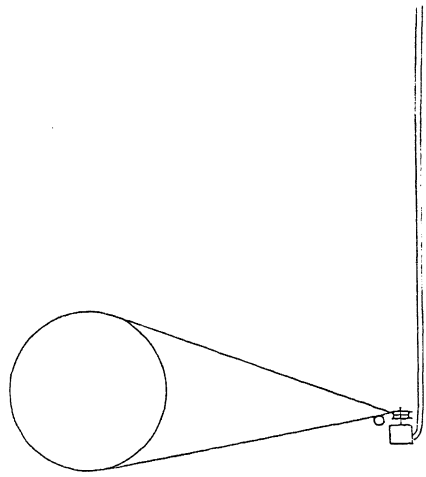


Fig. 14. SPEED-INDICATOR.

Near the bottom of this box, an upright glass tube is inserted. The paddle-

The rotation of the paddle causes the liquid to rise in the tube to a height dependent on the speed of the engine.

Thus the scale was graduated by running the engine at constant speeds and counting.

## INDICATOR-SPRINGS (FIG. 15).

Before commencing the experiments, it was necessary to test the accuracy of the indicator-springs.

To do this, the indicator was rigidly fixed in a vertical position, and pressure was applied to the centre of the indicator-piston by means of a rod, pressed upwards by one end of a long beam, balanced on a knife-edge; the weight being hung on the other end of the beam.

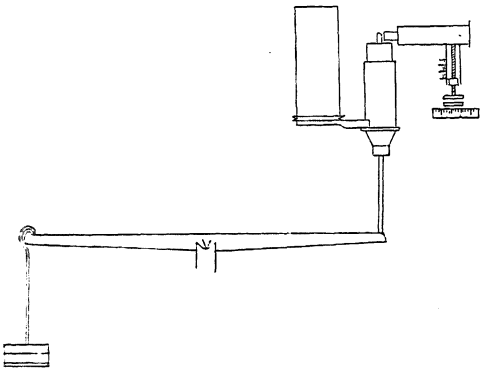


Fig. 15. APPARATUS FOR TESTING THE SPRINGS.

The deflection of the springs was measured by Professor Reynolds' small cathetometer, used in his experiments on "Thermal Transpiration," and fully described in the *Philosophical Transactions of the Royal Society*, Part II. 1879.

It consists of a microscope carried by a vertical sliding-piece moved by a very accurate screw with fifty threads to the inch, and is capable of measuring to $\frac{1}{10,000}$ inch. Thus, by continually adjusting the screw, so that some well-defined mark on the piston-rod lay on the horizontal cross-hair, and noting the reading for each particular weight, the deflections under the various pressures were arrived at.

To prevent the piston of the indicator sticking in a wrong position, owing to friction, the frame to which the indicator was attached was tapped with a light hammer each time a fresh weight

ordinary temperature.

The next thing was to see what effect an increase of temperature would have on the springs. Now, the temperature of the indicator-spring never rises above 212° Fahrenheit, owing to its being open to the atmosphere, and moisture always being present in the indicator. Hence the springs were surrounded with steam at 212° Fahrenheit, by passing it through a hole in the cap of the indicator; of course the steam was at first all condensed; but by waiting until steam issued from another hole in the cap, the temperature was maintained uniformly at 212° during the experiments, which were conducted as in the previous cases. The result of these experiments for the same five springs is given in Table II.

Tables I. and II. show the uniformity of the increase of the deflection with a constant addition to the pressure on the spring. They also prove that the deflection of a spring is greater, under the same weight, the higher the temperature; hence the necessity of setting indicator-springs when hot, *i.e.*, when at the temperature of boiling water. It appears also from these Tables, that in the case of the springs experimented upon, the deflection under a given weight at 212° Fahrenheit is about 3 per cent. greater than at the ordinary temperature; therefore a diagram, taken with a spring which is perfectly correct when cold, will be 3 per cent. too large.

This is shown more clearly in Table III., which gives the mean deflection of springs under 1 lb. when cold and when hot, as calculated from Tables I. and II., and the deflection under 1 lb. as calculated from the number marked on the spring. The percentage error in the fifth column is the difference between columns three and four, and is allowed for in all the following calculations. It will be noticed from this Table, that in one case only did this error amount to 2 per cent.

## TABLE I.—DEFLECTION OF SPRINGS, WHEN COLD.

| Strength of Spring, lbs. to the Inch. | 20 | | 32 | | 32* | | 50 | | 80 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight in Scale Pan. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. |
| | 0·6829 | | 0·4887 | | 0·4888 | | 0·4832 | | 0·4791 | |
| | | 0·0246 | | 0·0156 | | 0·0157 | | 0·0099 | | 0·0060 |
| 1 | 0·7075 | | 0·5043 | | 0·5045 | | 0·4931 | | 0·4860 | |
| | | 0·0242 | | 0·0156 | | 0·0154 | | 0·0104 | | 0·0061 |
| 2 | 0·7317 | | 0·5199 | | 0·5199 | | 0·5035 | | 0·4921 | |
| | | 0·0245 | | 0·0154 | | 0·0154 | | 0·0101 | | 0·0063 |
| 3 | 0·7562 | | 0·5353 | | 0·5353 | | 0·5136 | | 0·4984 | |
| | | 0·0243 | | 0·0153 | | 0·0152 | | 0·0101 | | 0·0062 |
| 4 | 0·7805 | | 0·5506 | | 0·5505 | | 0·5237 | | 0·5046 | |
| | | 0·0240 | | 0·0156 | | 0·0153 | | 0·0100 | | 0·0062 |
| 5 | 0·8045 | | 0·5662 | | 0·5658 | | 0·5337 | | 0·5108 | |
| | | 0·0240 | | 0·0154 | | 0·0152 | | 0·0100 | | 0·0062 |
| 6 | 0·8285 | | 0·5816 | | 0·5810 | | 0·5437 | | 0·5170 | |
| | | 0·0245 | | 0·0153 | | 0·0153 | | 0·0095 | | 0·0062 |
| 7 | 0·8530 | | 0·5969 | | 0·5963 | | 0·5532 | | 0·5232 | |
| | | 0·0250 | | 0·0157 | | 0·0156 | | 0·0099 | | 0·0062 |
| 8 | 0·8780 | | 0·6126 | | 0·6119 | | 0·5631 | | 0·5294 | |
| | | 0·0250 | | 0·0157 | | 0·0155 | | 0·0098 | | 0·0062 |
| 9 | 0·9030 | | 0·6283 | | 0·6274 | | 0·5729 | | 0·5356 | |
| | | 0·0248 | | 0·0157 | | 0·0153 | | 0·0100 | | 0·0061 |
| 10 | 0·9278 | | 0·6440 | | 0·6427 | | 0·5829 | | 0·5417 | |
| | | 0·0249 | | 0·0155 | | 0·0157 | | 0·0101 | | 0·0060 |
| 11 | 0·9527 | | 0·6595 | | 0·6584 | | 0·5930 | | 0·5477 | |
| | | 0·0247 | | 0·0155 | | 0·0154 | | 0·0099 | | 0·0060 |
| 12 | 0·9774 | | 0·6750 | | 0·6738 | | 0·6029 | | 0·5537 | |
| | | 0·0246 | | 0·0158 | | 0·0160 | | 0·0099 | | 0·0059 |
| 13 | 1·0020 | | 0·6908 | | 0·6898 | | 0·6127 | | 0·5596 | |
| | | 0·0244 | | 0·0156 | | 0·0156 | | 0·0100 | | 0·0060 |
| 14 | 1·0264 | | 0·7064 | | 0·7054 | | 0·6227 | | 0·5656 | |
| | | 0·0243 | | 0·0158 | | 0·0155 | | 0·0100 | | 0·0061 |
| 15 | 1·0507 | | 0·7222 | | 0·7209 | | 0·6327 | | 0·5717 | |
| | | 0·0246 | | 0·0156 | | 0·0161 | | 0·0100 | | 0·0059 |
| 16 | 1·0753 | | 0·7378 | | 0·7370 | | 0·6427 | | 0·5776 | |
| | | 0·0238 | | 0·0157 | | 0·0159 | | 0·0100 | | 0·0061 |
| 17 | 1·0991 | | 0·7535 | | 0·7529 | | 0·6527 | | 0·5837 | |
| | | 0·0251 | | 0·0156 | | 0·0154 | | 0·0100 | | 0·0059 |
| 18 | 1·1242 | | 0·7691 | | 0·7683 | | 0·6627 | | 0·5896 | |
| | | 0·0244 | | 0·0150 | | 0·0151 | | 0·0100 | | 0·0062 |
| 19 | 1·1486 | | 0·7841 | | 0·7834 | | 0·6727 | | 0·5958 | |
| | | 0·0242 | | 0·0152 | | 0·0154 | | 0·0100 | | 0·0072 |
| 20 | 1·1728 | | 0·7993 | | 0·7988 | | 0·6827 | | 0·6030 | |
| | | ... | | 0·0152 | | 0·0156 | | 0·0102 | | 0·0062 |
| 21 | ... | | 0·8145 | | 0·8144 | | 0·6929 | | 0·6092 | |
| | | ... | | 0·0154 | | 0·0155 | | 0·0101 | | 0·0062 |
| 22 | ... | | 0·8299 | | 0·8299 | | 0·7030 | | 0·6154 | |
| | | ... | | 0·0156 | | 0·0153 | | 0·0103 | | 0·0061 |
| 23 | ... | | 0·8455 | | 0·8452 | | 0·7133 | | 0·6215 | |
| | | ... | | 0·0151 | | 0·0155 | | 0·0100 | | 0·0063 |
| 24 | ... | | 0·8606 | | 0·8607 | | 0·7233 | | 0·6278 | |
| | | ... | | 0·0152 | | 0·0160 | | 0·0101 | | 0·0062 |
| 25 | ... | | 0·8758 | | 0·8767 | | 0·7334 | | 0·6340 | |
| | | ... | | ... | | ... | | 0·0099 | | 0·0062 |
| 26 | ... | | ... | | ... | | 0·7433 | | 0·6402 | |

## Table II.—Deflection of Springs, when hot.

| Strength of Spring, lbs. to the Inch. | 20 | | 32 | | 32* | | 50 | | 80 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight in Scale Pan. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. | Reading of Micrometer. | Deflection under 1 lb. |
| | 0·6872 | | 0·4941 | | 0·4937 | | 0·4862 | | 0·5953 | |
| | | 0·0245 | | 0·0154 | | 0·0162 | | 0·0104 | | 0·0063 |
| 1 | 0·7117 | | 0·5095 | | 0·5099 | | 0·4966 | | 0·6016 | |
| | | 0·0251 | | 0·0160 | | 0·0157 | | 0·0108 | | 0·0065 |
| 2 | 0·7368 | | 0·5255 | | 0·5256 | | 0·5074 | | 0·6081 | |
| | | 0·0251 | | 0·0158 | | 0·0157 | | 0·0103 | | 0·0064 |
| 3 | 0·7619 | | 0·5413 | | 0·5413 | | 0·5177 | | 0·6145 | |
| | | 0·0249 | | 0·0159 | | 0·0156 | | 0·0103 | | 0·0062 |
| 4 | 0·7868 | | 0·5572 | | 0·5569 | | 0·5280 | | 0·6207 | |
| | | 0·0250 | | 0·0157 | | 0·0157 | | 0·0103 | | 0·0063 |
| 5 | 0·8118 | | 0·5729 | | 0·5726 | | 0·5383 | | 0·6270 | |
| | | 0·0251 | | 0·0162 | | 0·0156 | | 0·0103 | | 0·0063 |
| 6 | 0·8369 | | 0·5891 | | 0·5882 | | 0·5486 | | 0·6333 | |
| | | 0·0253 | | 0·0156 | | 0·0157 | | 0·0098 | | 0·0063 |
| 7 | 0·8622 | | 0·6047 | | 0·6039 | | 0·5584 | | 0·6396 | |
| | | 0·0258 | | 0·0162 | | 0·0164 | | 0·0105 | | 0·0064 |
| 8 | 0·8880 | | 0·6209 | | 0·6203 | | 0·5689 | | 0·6460 | |
| | | 0·0258 | | 0·0163 | | 0·0159 | | 0·0104 | | 0·0066 |
| 9 | 0·9138 | | 0·6372 | | 0·6362 | | 0·5793 | | 0·6526 | |
| | | 0·0256 | | 0·0160 | | 0·0160 | | 0·0099 | | 0·0062 |
| 10 | 0·9394 | | 0·6532 | | 0·6522 | | 0·5892 | | 0·6588 | |
| | | 0·0259 | | 0·0163 | | 0·0158 | | 0·0102 | | 0·0062 |
| 11 | 0·9653 | | 0·6695 | | 0·6680 | | 0·5994 | | 0·6650 | |
| | | 0·0258 | | 0·0160 | | 0·0162 | | 0·0104 | | 0·0064 |
| 12 | 0·9911 | | 0·6855 | | 0·6842 | | 0·6098 | | 0·6714 | |
| | | 0·0250 | | 0·0162 | | 0·0158 | | 0·0098 | | 0·0066 |
| 13 | 1·0161 | | 0·7017 | | 0·6700 | | 0·6196 | | 0·6780 | |
| | | 0·0250 | | 0·0159 | | 0·0162 | | 0·0106 | | 0·0065 |
| 14 | 1·0411 | | 0·7176 | | 0·7162 | | 0·6302 | | 0·6845 | |
| | | 0·0246 | | 0·0163 | | 0·0163 | | 0·0105 | | 0·0062 |
| 15 | 1·0657 | | 0·7339 | | 0·7325 | | 0·6407 | | 0·6907 | |
| | | 0·0259 | | 0·0164 | | 0·0161 | | 0·0101 | | 0·0063 |
| 16 | 1·0916 | | 0·7503 | | 0·7486 | | 0·6508 | | 0·6970 | |
| | | 0·0258 | | (†) | | 0·0161 | | 0·0104 | | 0·0067 |
| 17 | 1·1174 | | 0·7689 | | 0·7647 | | 0·6612 | | 0·7037 | |
| | | 0·0252 | | 0·0160 | | 0·0158 | | 0·0105 | | 0·0064 |
| 18 | 1·1426 | | 0·7849 | | 0·7805 | | 0·6717 | | 0·7101 | |
| | | 0·0242 | | 0·0159 | | 0·0157 | | 0·0105 | | 0·0061 |
| 19 | 1·1668 | | 0·8008 | | 0·7962 | | 0·6822 | | 0·7162 | |
| | | ... | | 0·0159 | | 0·0160 | | 0·0106 | | 0·0065 |
| 20 | ... | | 0·8167 | | 0·8122 | | 0·6928 | | 0·7227 | |
| | | ... | | 0·0159 | | 0·0157 | | 0·0102 | | 0·0062 |
| 21 | ... | | 0·8326 | | 0·8279 | | 0·7030 | | 0·7289 | |
| | | ... | | 0·0163 | | 0·0170 | | 0·0105 | | 0·0063 |
| 22 | ... | | 0·8489 | | 0·8449 | | 0·7135 | | 0·7352 | |
| | | ... | | 0·0162 | | 0·0156 | | ... | | 0·0064 |
| 23 | ... | | 0·8651 | | 0·8605 | | ... | | 0·7416 | |
| | | ... | | 0·0159 | | 0·0160 | | ... | | 0·0063 |
| 24 | ... | | 0·8810 | | 0·8765 | | ... | | 0·7479 | |
| | | ... | | 0·0162 | | 0·0164 | | ... | | 0·0063 |
| 25 | ... | | 0·8972 | | 0·8929 | | ... | | 0·7542 | |
| | | ... | | ... | | ... | | ... | | 0·0062 |

## Effect of inertia of the moving-parts on the area of the Diagram.

Having ascertained the errors in the springs, the next question was to find how far the effect of inertia tends to alter the area of the diagram before the oscillations appear. To do this, diagrams were taken at various speeds and with several springs. In Table IV. the efficiences, *i.e.*, the ratios of the brake-pressures to the mean diagram-pressures, are given at the various speeds, instead of the mean pressures as calculated from the diagrams, on account of the difficulty of keeping the load on the brake exactly constant.

Table III.—Mean Deflections of Springs under 1 lb.

| Spring. | Experimental Deflection, cold. | Experimental Deflection, hot. | Deflection from Mark on Spring. | Percentage Error. |
|---|---|---|---|---|
| | Inch. | Inch. | Inch. | |
| 20 | 0·0245 | 0·02525 | 0·02523 | 0·08 |
| 32 | 0·0155 | 0·01600 | 0·01580 | 1·25 |
| 32* | 0·0155 | 0·01595 | 0·01580 | 0·95 |
| 50 | 0·0100 | 0·01030 | 0·01009 | 2·08 |
| 80 | 0·0062 | 0·00636 | 0·00630 | 0·94 |

* Different maker.

Now if the inertia affects the areas of the diagrams, the areas of the diagrams, and hence the mean diagram-pressures, will vary directly with the velocity, and inversely as the stiffness of the spring (the weight on the brake being constant); *i.e.*, the efficiencies will vary directly with the stiffness of the spring and with the inverse of the velocity. However, an examination of the Table shows no appreciable increase of the efficiency with greater stiffness of the spring, and no more decrease, as the velocity increases, than would be accounted for by the greater friction.

Table IV. is not filled in for the 20 and 32 springs at the higher speeds, because the oscillations begin to come in.

The inference is, "that in a given engine, when the ratio of the speed to the stiffness of the spring, used to indicate it, is not so great as to cause oscillations to appear in the diagram, the area is not appreciably affected by the momentum of the moving parts." This seems natural, for, after the

of the spring is gradual, and hence its deflection would correspond to the pressure on it.

TABLE IV.

| Speed. | Efficiencies. | | | | |
|---|---|---|---|---|---|
| | Spring. | | | | Mean Values. |
| | 20 | 32 | 50 | 80 | |
| 44 | 0·94 | ... | 0·95 | ... | 0·945 |
| 68 | 0·93 | 0·94 | 0·93 | ... | 0·933 |
| 84 | ... | 0·93 | 0·93 | 0·93 | 0·930 |
| 107 | ... | 0·93 | 0·94 | 0·93 | 0·933 |
| 127 | ... | ... | 0·93 | 0·92 | 0·925 |

## OSCILLATIONS.

When the ratio of the speed of the engine to the stiffness of the spring, used to indicate it, exceeds a certain value, which is different for different engines, oscillations appear in the diagram.

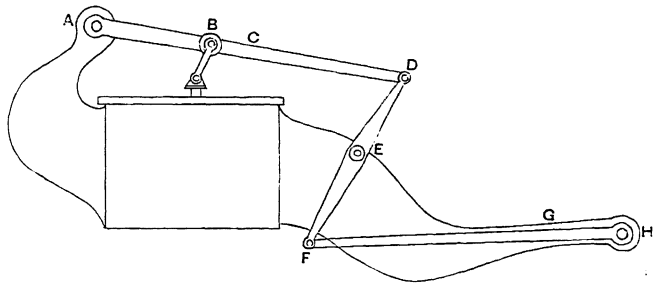



Fig. 16.

The equation which gives the time of oscillation of the spring, modified by the parallel-motion bars (Fig. 16), devised by Professor Reynolds, is, taking the axis of $x$ vertically upwards:—

$$\frac{W'}{g}\frac{d^2x}{dt^2} = Q - ex \qquad (1)$$

$$Q = P - \left( W + (w + w_2)\frac{b}{a} + 4w_1 \right),$$

and $e$ = the stiffness of spring.

$W$ = weight of piston + $\frac{1}{2}$ weight of spring.

$w$ = weight of rod $AD$ (Fig. 16).

$w_1$ = weight of rod $DF$.

$w_2$ = weight of rod $FH$.

$P$ = whole pressure of steam on the piston.

$a = AB$.

$b = AC = GH$ = distance of centres of gravity of rods $AD$, $FH$ from $A$ and $H$ respectively.

$k$ = radius of gyration of $AD$, $FH$, about $A$ and $H$ respectively.

$W'$ is, in fact, the weight which would have to oscillate at $B$ to be equivalent to the moving-parts, and the expression $P - Q$ represents the force which would have to be applied at $B$, if the parts referred to were removed, to be equivalent to them.

Equation (1) is of the well-known form for finding the time of a complete oscillation ($T$), and then is obtained in the ordinary way—

$$T = 2\pi\sqrt{\frac{W'}{g.e}}.$$

Or calling $N$ the number of oscillations per minute—

$$N = \frac{30}{\pi}\sqrt{\frac{g.e}{W'}}.$$

It will be noticed that in equation (1), the rotation of the rod $DF$, which is very slight, is neglected, as also is the friction of the instrument.

In the case of the indicator employed, the values of the above constants were—

$W_{20} = 0{\cdot}10529$ lb. $\quad W_{32} = 0{\cdot}10954$ lb.

$w = 0{\cdot}00957$ lb.

$w_1 = 0{\cdot}01037$ lb.

$w_2 = 0{\cdot}00866$ lb.

$a = 0{\cdot}75$ inch.

$b = 1$ inch.

$k^2 = 1{\cdot}83$.

Whence from the above $W'_{20} = 0{\cdot}33063$ lb.

$$W'_{32} = 0{\cdot}33488 \text{ lb.}$$

and from preceding experiments $e_{20} = 475$.

$$e_{32} = 750.$$

NOTE.—The suffixes 20 and 32 refer to the springs marked 20 and 32 respectively.

Thus $N_{20} = 2050.$

$$N_{32} = 2560.$$

It will be noticed on substituting for $W'$, that the rod $DF$ has as much influence in causing the oscillations to come in as all the other moving parts together.

To verify these results, diagrams were taken with weak springs, in order to bring in oscillations. It must be understood that the diagrams in this Paper are not intended as specimens of good diagrams, but are merely to illustrate the various points considered.

The time of oscillation of the indicator-springs may be approximately obtained from such diagrams in the following manner:—first, project the crests and hollows of the oscillations vertically down on to the atmospheric-line; next, with a radius equal to the length of the connecting-rod (reduced to the same scale as the length of the diagram), and centre on the atmospheric-line produced, project the points so obtained upon a circle described on the atmospheric-line with the length of diagram as the diameter; then the arcs of the circle intercepted between alternate intersections represent the angle turned through by the crank during the time of a complete oscillation of the spring. Hence, assuming that the crank-shaft rotates uniformly, these arcs would represent the time of a complete oscillation.

There are several reasons why the number of oscillations per minute so obtained should not quite equal the number as obtained above from theory. Firstly, the neglect of the rotation of the bar $DF$, and of the friction in the equation, would make a slight difference; but the most important reason is the gradual decrease of pressure in the cylinder of the engine, consequent upon the motion of the piston and initial condensation. This diminution of pressure causes the crests to lie behind, and the hollows to be in advance of their true position (Figs. 17 to 25), by an amount varying with the rate of decrease. Supposing for the moment the lag to be equal in amount for each crest, the projection of it (the lag) upon the crank-circle will include a greater arc towards the ends than in the middle of the diagram;

too great at one end of the diagram, and too small at the other end of the diagram. However, this tendency is counteracted, at least during the first half of the stroke (and it is during this period chiefly that the time of oscillation is measured), by the retardation of the velocity of oscillation, and consequently the greater effect of the reduction of pressure in causing the crests to lag as the stroke progresses. That the velocity of oscillation decreases with the distance from the point of admission is seen by integrating equation (1), where—

$$\frac{dx}{dt} = \left(\frac{Q}{e} - c\right) \cdot \sqrt{\frac{ge}{W}} \cdot \sin \sqrt{\frac{ge}{W}} \cdot t \quad \ldots\ldots\ldots\ldots\ldots\ldots (2)$$

where $c = \frac{1}{4}$ the distance of a hollow from the atmospheric-line.

Now $2\left(\frac{Q}{e} - c\right)$ is equal to the range of oscillation, as may be seen by again integrating equation (1), and in the case of the diagrams referred to, the range of oscillation, and hence from above, the velocity of oscillation of the spring diminished as the stroke advances, which is almost self-evident, for the time of oscillation is independent of the range, so that if the range be reduced the velocity must be reduced also.

From equation (2) it is also seen that, other things being the same, the number of oscillations in a diagram increases with the stiffness of the spring, hence the counteracting effect, just referred to, would be less marked as the stiffness of the spring used is increased, so that for this reason the number of oscillations per minute as obtained from a diagram would be nearer the truth the weaker the spring.

Again, the number of oscillations per minute will probably be nearer the truth the greater the speed of the engine; for the number of oscillations in

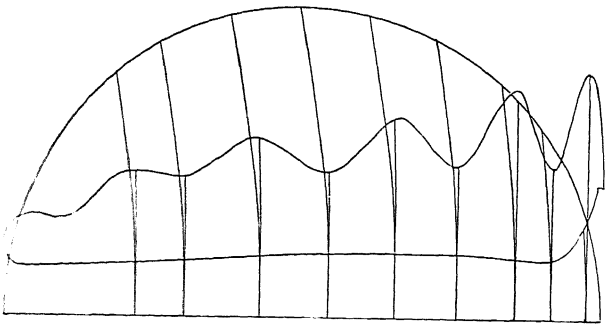


Fig. 17. Front-end diagram taken with 20 spring at 144 revolutions.

a diagram is smaller the greater the speed of the engine, because the time of oscillation of the spring is independent of the speed of the engine, and

hence the ratio of the velocity of oscillation to the rate of reduction of pressure is less the higher the speed of the engine, hence the counteracting effect referred to is greater. These two points are illustrated in the diagrams, Figs. 17 to 25, and the accompanying Table V.

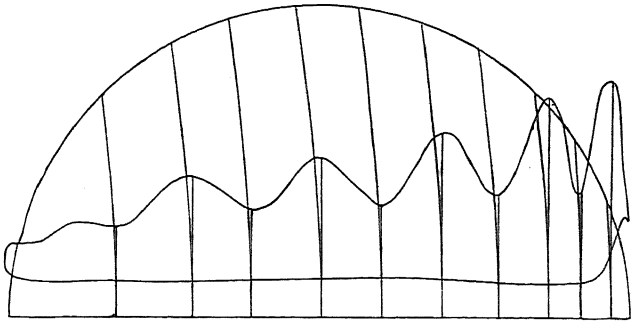


Fig. 18. Front-end diagram taken with 20 spring at 127 revolutions.

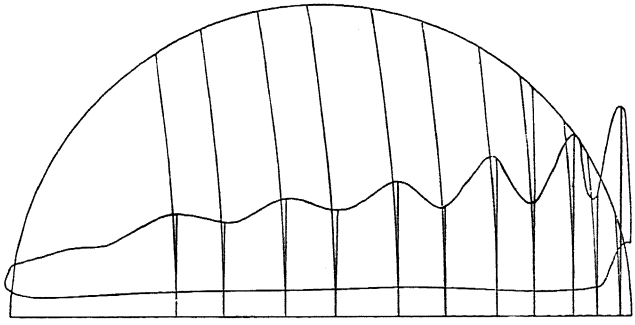
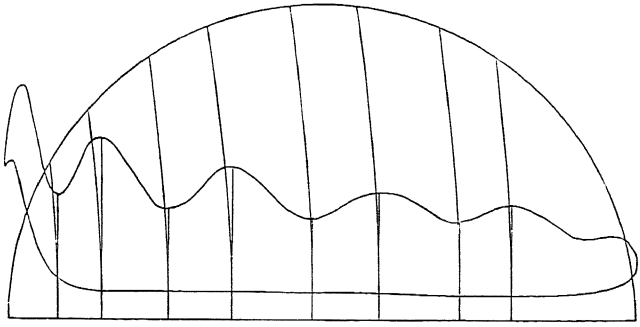


Fig. 19. Front-end diagram taken with 20 spring at 107 revolutions.



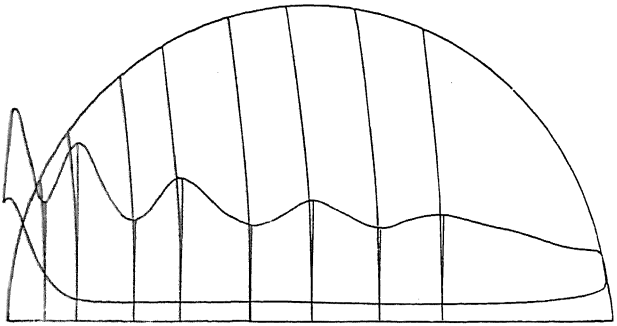


Fig. 21. Back-end diagram taken with 20 spring at 127 revolutions.

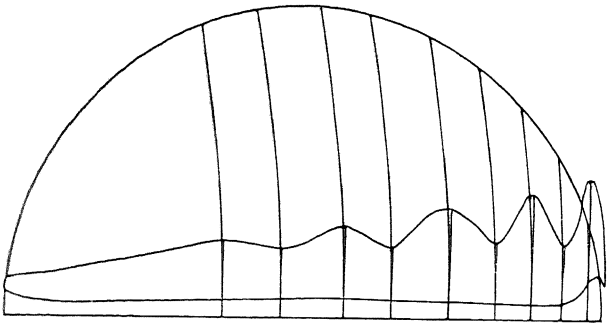


Fig. 22. Front-end diagram taken with 32 spring at 144 revolutions.

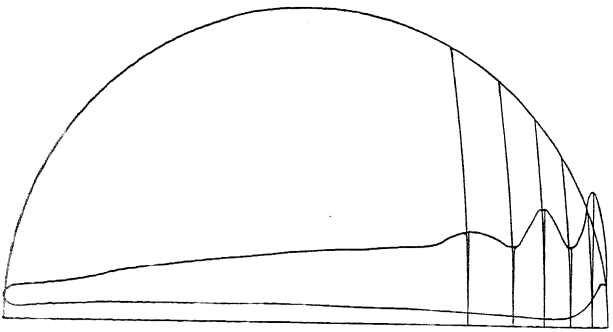


Fig. 23. Front-end diagram [illegible]

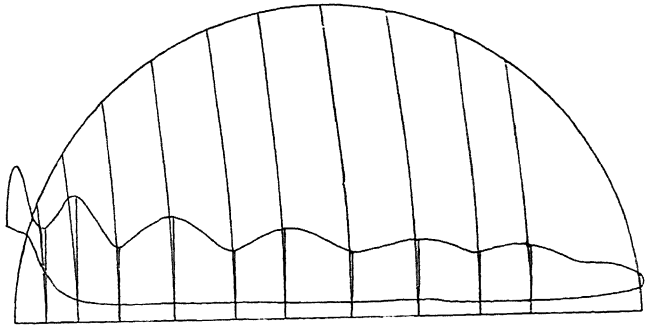


Fig. 24. Back-end diagram taken with 32 spring at 144 revolutions.

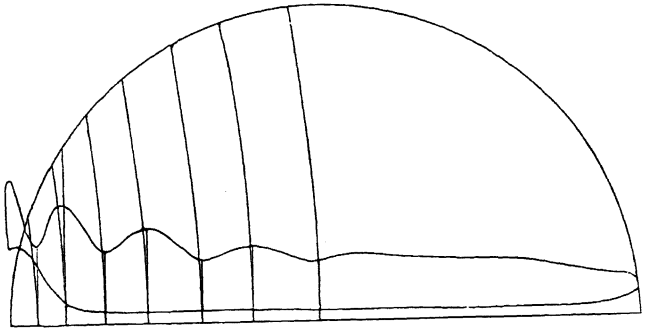


Fig. 25. Back-end diagram taken with 32 spring at 127 revolutions.

TABLE V.

| Speed. Revolutions per minute. | End. | Spring. | Number of Oscillations. | | Difference per cent. |
|---|---|---|---|---|---|
| | | | From Diagram. | From Formula. | |
| 144 (Fig. 17) | Front | 20 | 1,950 | 2,050 | 5·0 |
| 127 (Fig. 18) | " | 20 | 1,920 | " | 6·5 |
| 107 (Fig. 19) | " | 20 | 1,883 | " | 8·5 |
| 144 (Fig. 20) | Back | 20 | 1,950 | " | 5·0 |
| 127 (Fig. 21) | " | 20 | 1,930 | " | 6·0 |
| 144 (Fig. 22) | Front | 32 | 2,370 | 2,560 | 7·5 |
| 127 (Fig. 23) | " | 32 | 2,300 | " | 10·0 |
| 144 (Fig. 24) | Back | 32 | 2,300 | " | 10·0 |
| 127 (Fig. 25) | " | 32 | 2,300 | " | 10·0 |

In calculating the oscillations from the diagrams a mean value was taken.

the first one, and on the friction of the pencil. The range of the first oscillation is great if the period of a semi-oscillation nearly coincides with the time the steam takes to attain its maximum pressure on admission; this happens when the engine is running fast. It is small when the time of attaining the greatest pressure of steam and the time of a semi-oscillation are not nearly equal. Thus, when the steam is wire-drawn on entering the cylinder of an engine, that engine would give a better diagram at high speeds than if this were not the case.

Again, if the steam be throttled on entering the indicator, the time of the steam attaining its maximum pressure in the indicator-cylinder will be lengthened; hence the extent of the first oscillation will be reduced, and therefore the oscillations in the diagram will be reduced; but the diagram so obtained does not give a correct idea of the work done, but is too small in proportion to the amount of throttling.

The effect of the friction of the pencil in lessening the extent of the oscillations varies with the pressure on the pencil. When the oscillations are thus reduced by pressing the pencil on the paper an indefiniteness is introduced into the results, owing to the pencil sticking either too high or too low, and the results cannot be relied on.

To illustrate this point diagrams were taken under the same conditions, of which the results are given in Table VI.

In the case of the weaker springs, 20 lbs. and 32 lbs., the pencil was pressed on the diagram-paper so as to reduce the oscillations. Diagrams were taken with stiffer springs, in which oscillations do not perceptibly enter, to check the results so obtained.

TABLE VI.—FRONT-END EFFICIENCIES.

| Speed. | 20 Spring (pencil pressed). | 32 Spring (pencil pressed). | 50 Spring. | 80 Spring. |
|---|---|---|---|---|
| 69 | 0·932 | 0·927 | 0·959 | 0·958 |
| 87 | 0·931 | 0·942 | 0·954 | 0·954 |
| 108 | 0·918 | 0·907 | 0·955 | 0·954 |
| Mean efficiencies | 0·927 | 0·925 | 0·956 | 0·955 |

Table VI. shows that in those experiments in which the pencil was pressed

doubt if the engine had cut-off earlier, and been working with a higher pressure of steam, the results would have been still more discordant.

Probably the most accurate method of arriving at the mean pressure when the oscillations extend a good way into the diagram, at least when the cut-off occurs late in the stroke as in the present case, is to draw a line midway between the crests and hollows, and to the value for the mean pressure obtained by taking this line add an amount, which in the case of indicators similar to the one employed in these experiments is 0·35 lb.

To see the reason for this, referring back to equation (1), and integrating it twice—

$$x = \frac{Q}{e} + \left(c - \frac{Q}{e}\right) \cos \sqrt{\frac{\overline{ge}}{\overline{W'}}} \,.\, t.$$

Substituting in this $t = \pi \sqrt{\frac{\overline{W'}}{ge}}$ (time of half oscillation)

$$x = \frac{2Q}{e} - c,$$

*i.e.*, $Q$ is the arithmetical mean of $ex$ and $ec$.

Substituting in this expression the value for $Q$, and taking the area of the indicator piston as 0·5 square inch, the following value for the intensity of pressure ($p$) is obtained:—

$$p = e(x + c) + 2\left(W + (w + w_2)\frac{b}{a} + 4w_1\right).$$

Hence if a line midway between the crests and hollows be taken as representing the pressure, the mean pressure so obtained will be too small by the amount of the second term on the right, which for the indicator employed = 0·35 lb. This would be negligible for any considerable pressure.

It was found that with the indicator used, a diagram tolerably free from oscillations could be taken from the engine up to a speed of about 90 revolutions per minute, with a spring of 20 lbs. to the inch. Hence, since the time the steam takes to attain its maximum pressure in the cylinder varies with the speed of the engine (in different engines it would also vary with the arrangement of the slide-valve), it might be expected to obtain a diagram tolerably free from oscillations at a speed of from 400 to 500 revolutions per minute, with an indicator having a parallel-motion in which the rod corresponding to $DF$ is absent, and in which the other moving-parts are as light again as in the present case. This would be the case with an indicator of smaller diameter, in which a much stronger spring could be used for the same weight. For much higher speeds than this unless the

the speed, it would appear that the diagrams would be affected to a great but unknown extent by the oscillations of the spring.

## Vitiation of the Diagram by the Stretching of the Indicator-Cord.

The effect of the stretching of the cord varies greatly with the shape of the diagram, and with the state of lubrication of the paper drum. Owing to the late cut-off, the engine employed in the experiments was not well suited for showing this effect. However, in some experiments, when the paper-drum wanted oiling, the diagram given with the cord was more than 7 per cent. smaller than that given with the steel wire. The effect is in all cases to reduce the area, though not necessarily to reduce the mean pressure calculated from it.

To ascertain if the diagrams from the engine in question would show much difference when taken with cord and with wire, the experiments summarised in Table VII. were made. The lengths and efficiencies given are the mean of the front- and back-end diagrams.

Table VII.

| Speed. | Wire. | | String. | |
|---|---|---|---|---|
| | Length. | Efficiency. | Length. | Efficiency. |
| | Inches. | | Inches. | |
| 68 | 5·11 | 0·93 | 4·78 | 0·94 |
| 84 | 5·11 | 0·93 | 4·80 | 0·94 |
| 107 | 5·13 | 0·94 | 4·80 | 0·94 |
| 127 | 5·12 | 0·93 | 4·80 | 0·97 |

Although the efficiency as calculated from the two sets of diagrams is inconsiderable, yet the difference in their lengths points to a large difference in their areas.

The difference in the tension of the indicator-cord at various parts of the stroke may be shown by considering the equation of motion of the indicator-drum.

This equation during the outward stroke is

$$I \cdot \frac{d^2\delta}{\quad} = T_2 \quad M \quad V$$

where $I$ = the moment of inertia of the drum about its axis.

$T$ = the tension in the cord.

$a$ = radius of drum.

$M_s$ = moment of resistance of the drum-spring about the axis of drum.

$M_f$ = moment of friction about the same line.

Hence
$$T = \frac{1}{a}\left(I\frac{d^2\delta}{dt^2} + M_s + M_f\right).$$

$\frac{d^2\delta}{dt^2}$, the angular acceleration of the drum about its axis, is a maximum to begin with, and continues to decrease during the stroke, becoming zero near the middle of the stroke.

$M_s$ is constant during the stroke.

$M_f$ is a maximum on starting, then suddenly decreases and then varies directly with some power of the velocity, increasing therefore until about the middle of the stroke, and then diminishing.

Thus it is evident that during the outward stroke the tension $T$ is a maximum to begin with, decreases rapidly about the middle of the stroke, and more slowly towards the end.

At the end of the stroke the friction suddenly changes sign, thus causing a sudden diminution in the tension at the commencement of the inward stroke; afterwards the tension increases rapidly about the middle of the stroke, and more slowly towards the end.

Hence it might be expected that that part of a diagram taken during the outward stroke would be shortened to commence with, then slightly stretched, and slightly shortened at the end; and that that part taken during the inward stroke, would be first shortened, then lengthened a little, and slightly shortened towards the end, almost as in the case of the outward stroke.

To show that this actually takes place, an arrangement was devised by Professor Reynolds, the object of which was to prick holes in the diagram corresponding to eleven equidistant positions of the piston. For this purpose a Grove battery (*D* Fig. 26) of five cells, in conjunction with a Ruhmkorff coil, was used. But in order to get the holes pricked in their proper positions, instead of the ordinary arrangement for making and breaking contact, the following plan was adopted, the hammer of the coil being held back. The wire from one pole of the battery was connected with one of the binding screws (*H*) of the primary coil as usual, but the wire from the other

binding-screw ($G$) of the primary coil was attached to the contact-breaker ($B$). This consisted of a smooth piece of wood, into which eleven pieces of wire were inserted at equal distances, and filed level with the wood, the

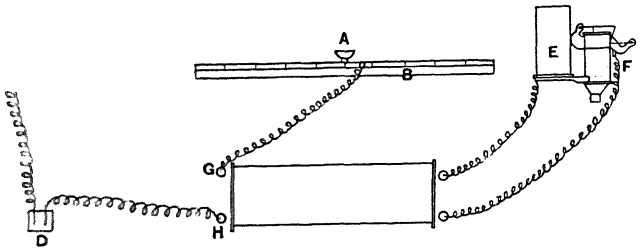



Fig. 26. Electrical Apparatus for showing the Distortion of a Diagram by the Indicator-Cord.

distance between the first and the last wires being the length of the stroke of the engine. The contact-breaker was fixed on the lower slide bar, so that the central wire should be at the middle of the stroke, and so that a pointer ($A$), which was secured to the cross-head, should slide on the smooth piece of wood. Hence every time the pointer crossed a wire on the contact-breaker the circuit of the primary current was complete, and a spark of the induced current passed through the diagram-paper. To bring this about one wire of the induced current was connected with the metallic drum ($E$), and the other to a cup of mercury ($F$), into which the metallic pencil dipped, thus completing the circuit of the induced current when the pencil touched the paper.

In the diagrams, Figs. 27 to 34, which were taken in this manner, the position of the pricked holes, corresponding to the eleven equidistant positions of the piston, are indicated by small circles. The relative positions of these circles show which parts of the diagrams are lengthened, and which are shortened. An examination shows that the effect is not merely to shorten

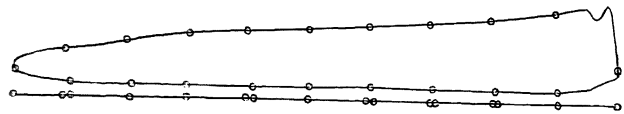
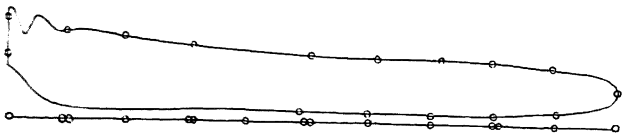


Fig. 27. Front-end pricked diagram taken with wire at 107 revolutions.



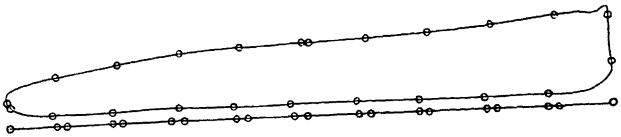


Fig. 29. Front-end pricked diagram taken with string at 107 revolutions.

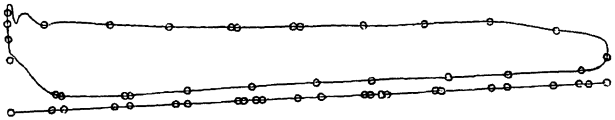


Fig. 30. Back-end pricked diagram taken with string at 107 revolutions.

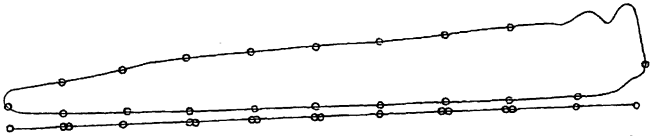


Fig. 31. Front-end pricked diagram taken with wire at 127 revolutions.

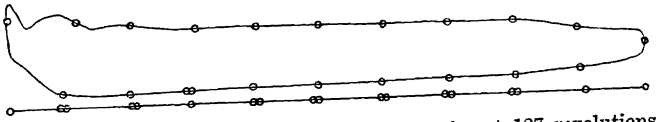


Fig. 32. Back-end pricked diagram taken with wire at 127 revolutions.

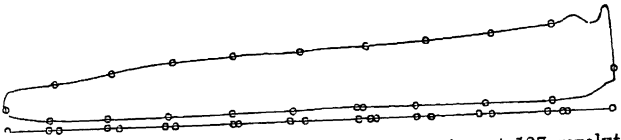


Fig. 33. Front-end pricked diagram taken with string at 127 revolutions.

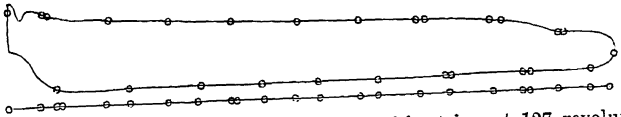


Fig. 34. Back-end pricked diagram taken with string at 127 revolutions.

the ends and lengthen the middle of the diagrams, but also to distort them, *i.e.*, to cause corresponding points in their upper and lower parts not to lie in the same vertical line. The amount of this distortion is shown by the distance between corresponding points on the atmospheric-line. It will also be noticed that even in the diagrams taken with wire instead of with cord this distortion is not altogether absent. The indefiniteness in the

modification in their form when taken with cord.

At high speeds, when the spring of the drum is not stiff enough to keep the cord tight near the centre of the stroke, and the velocity is greatest, a shortening of the middle portion of the diagram, taken during the inward stroke, and a lengthening of the end, would result.

These considerations show that in indicators intended to take diagrams from engines running at high speeds, the drum, as well as all the other moving-parts, should be as light as possible.

# 50.

## ON THE DILATANCY OF MEDIA COMPOSED OF RIGID PARTICLES IN CONTACT. WITH EXPERIMENTAL ILLUSTRATIONS*.

[*From the* "Philosophical Magazine" *for December*, 1885.]

IDEAL rigid particles have been used in almost all attempts to build fundamental dynamical hypotheses of matter: these particles have generally been supposed smooth.

Actual media, composed of approximately rigid particles, exist in the shape of sand, shingle, grain, and piles of shot; all which media are influenced by friction between the particles.

The dynamical properties of media, composed of ideal smooth particles *in a high state of agitation*, have formed the subject of very long and successful investigations, resulting in the dynamical theory of fluids. Also, the limiting conditions of equilibrium of such media as sand, have been made the subject of theoretical treatment by the aid of certain assumptions.

These investigations, however, by no means constitute a complete theory of granular masses; nor does it appear that any attempts have been made to investigate the dynamical properties of a medium consisting of smooth hard particles, held in contact by forces transmitted through the medium. It has sometimes been assumed that such a medium would possess the properties of a liquid, although in the molecular hypothesis of liquids now accepted, the particles are assumed to be in a high state of motion, holding each other apart by collisions; such motion being rendered necessary to account for the property of diffusion.

* This Paper was read before Section A of the British Association at the Aberdeen Meeting, September 10, 1885, and again before Section B, at the request of the Section, September 15.

Without attempting anything like a complete dynamical theory, which will require a large development of mathematics, I would point out the existence of a singular fundamental property of such granular media, which is not possessed by known fluids or solids. On perceiving something which resembles nothing within the limits of one's knowledge, a name is a matter of great difficulty. I have called this unique property of granular masses "dilatancy," because the property consists in a definite change of bulk, consequent on a definite change of shape or distortional strain, any disturbance whatever causing a change of volume and generally dilatation.

In the case of fluids, volume and shape are perfectly independent; and although in practice it is often difficult to alter the shape of an elastic body without altering its volume, yet the properties of dilatation and distortion are essentially distinct, and are so considered in the theory of elasticity. In fact there are very few solid bodies which are to any extent dilatable at all.

With granular media, the grains being sensibly hard, the case is, according to the results I have obtained, entirely different. So long as the grains are held in mutual equilibrium by stresses transmitted through the mass, every change of relative position of the grains is attended by a consequent change of volume; and if in any way the volume be fixed, then all change of shape is prevented.

In speaking of a granular medium, it is assumed to be in such a condition that the position of any internal particle becomes fixed, when the positions of the surrounding particles are fixed.

This condition is very generally fulfilled, but not always where there is friction; without friction it would be always fulfilled.

From this assumption it at once follows, that no grain in the interior can change its position in the mass by passing between the contiguous grains without disturbing these; hence, whatever alterations the medium may undergo, the same particle will always be in the same neighbourhood.

If, then, the medium is subject to an internal strain, the shapes of the internal groups of molecules will all be altered, the shape of each elementary group being determined by the shape of the surrounding particles. This will be rendered most intelligible by considering instances; that of equal spheres is the most general, and presents least difficulty.

A group of such spheres being arranged in such a manner that, if the external spheres are fixed, the internal ones cannot move, any distortion of the boundaries will cause an alteration of the mean density, depending on the distortion and the arrangement of the spheres. For example:

If arranged as a pile of shot as in Fig. 2, which is an arrangement of tetrahedra and octahedra, the density of the media is $\frac{1}{\sqrt{2}}\frac{\pi}{3}$, taking the density of the sphere as unity.

If arranged in a cubical formation, as in Fig. 1, the density is $\frac{\pi}{6}$, or $\sqrt{2}$ times less than in the former case.

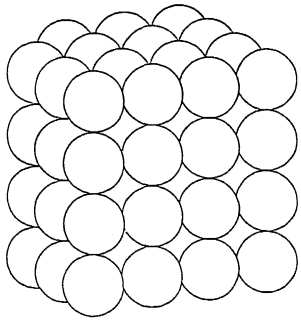


Fig. 1.

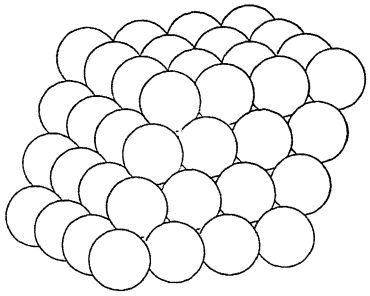


Fig. 2.

These arrangements are both controlled by the bounding spheres; and in either case the distortion necessitates a change of volume.

Either of these forms can be changed into the other by changing the shape of the bounding surface.

In both these cases the structure of the group is crystalline, but that is on account of the plane boundaries.

Practically, when the boundaries are not plane, or when the grains are of various sizes or shapes, such media consist of more or less crystalline groups having their axes in different directions, so that their mean condition is amorphous.

The dilatation consequent on any distortion for a crystalline group may be definitely expressed. When the mean condition is amorphous, it becomes difficult to ascertain definitely what the relations between distortion and dilatation are. But if, when at maximum density, the mean condition is not only amorphous but isotropic, a natural assumption seems to be, that any small contraction from the condition of maximum density in one direction, means an equal extension in two others at right angles.

As such a contraction in one direction continues, the condition of the medium ceases to be isotropic, and the relation changes until dilatation ceases. Then a minimum density is reached; after this, further contraction

a maximum density is reached. Such a relation between the contraction in one direction, and the consequent dilatation, would be expressed by

$$e - 1 = e_1 \sqrt{\sin^2 \frac{a}{e_1}};$$

$e$ being the coefficient of dilatation, $a$ that of contraction, and $e_1$ the maximum dilatation; the positive root only to be taken.

The amorphous condition of minimum volume is a very stable condition; but there would be a direct relation between the strains and stresses in any other condition if the particles were frictionless and rigid.

If the particles were rigid, the medium would be absolutely without resilience, and hence the only energy of which it would be susceptible would be kinetic energy; so that, supposing the motion slow, the work done upon any group in distorting it would be zero. Thus, supposing a contraction in one direction and expansion at right angles, then if $p_x$ be the stress in the direction of contraction, and $p_y$, $p_z$ the stress at right angles, $a$ being the contraction, $b$ and $c$ expansions,

$$p_x a + p_y b + p_z c = 0;$$

or, supposing $b = c$, $p_y = p_z$,

$$p_x a + p_y (a + c) = 0.$$

With friction the relation will be different; the friction always opposes strain, *i.e.* tends to give stability.

It is a very difficult question to say exactly what part friction plays; for although we may perhaps still assume without error,

$$\frac{p_y}{p_x} = \frac{1 - \sin \phi}{1 + \sin \phi},$$

where $\phi$ is the angle of repose, we cannot assume that $\tan \phi$ has any relation to the actual friction between the molecules.

The extreme value of $\phi$ is a matter of arrangement; as in the case of shot, which would pile equally well although without friction.

Supposing the grains rigid, the relations between distortion and dilatation are independent of friction; that is to say, the same distortion of any bounding surfaces must mean the same internal distortion whatever the friction may be.

The only possible effect of friction would be to render the grains stable under circumstances under which they would not otherwise be stable; and hence we might, with friction, be able to bring about an alteration of the boundaries other than the alteration possible without friction; and thus we

might possibly obtain a dilatation due to friction. How far this is the case can be best ascertained by experiment.

In the case of a granular medium, friction may always be relaxed by relieving the mass of stress, and any stability due to this cause would be shown by shaking the mass when in a condition of no stress.

But before applying this test, it is necessary to make perfectly sure that during the shaking the boundary spheres do not change position.

Another test of the effect of friction is, by comparing the relative dilatation and distortion with different degrees of friction. If the dilatation were in any sense a consequence of friction, it would be greater when the coefficient of friction between the spheres was greater. Where the granular mass is bounded by solid surfaces, the friction of the grains against these surfaces will considerably modify the results.

The problem presented by frictionless balls is much simpler than that presented in the case of friction. In the former case the theoretical problem may be attacked with some hope of success. With friction the property is most easily studied by experiment.

As a matter of fact, if we take means to measure the volume of a mass of solid grains more or less approximately spheres, the property of dilatancy is evident enough, and its effects are very striking, affording an explanation of many well-known phenomena.

If we have in a canvas bag any hard grains or balls, so long as the bag is not nearly full it will change its shape as it is moved about; but when the sack is approximately full, a small change of shape causes it to become perfectly hard. There is perhaps nothing surprising in this, even apart from familiarity; because an inextensible sack has a rigid shape when extended to the full, any deformation diminishing its capacity, so that contents which did not fill the sack at its greatest extension fill it when deformed. On careful consideration, however, many curious questions present themselves.

If, instead of a canvas bag, we have an extremely flexible bag of india-rubber, this envelope, when filled with heavy spheres (No. 6 shot), imposes no sensible restraint on their distortion; standing on the table it takes nearly the form of a heap of shot. This is apparently accounted for by the fact that the capacity of the bag does not diminish as it is deformed. In this condition it really shows us less of the qualities of its granular contents than the canvas bag. But as it is impervious to fluid, it will enable me to measure exactly the volume of its contents.

quite full of water and shot, no bubble of air in it, and carefully closing the mouth, I now find that the bag has become absolutely rigid in whatever form it happened to be when closed.

It is clear that the envelope now imposes no distortional constraint on the shot within it, nor does the water. What, then, converts the heap of loose shot into an absolutely rigid body? Clearly the limit which is imposed on the volume by the pressure of the atmosphere.

So long as the arrangement of the shot is such that there is enough water to fill the interstices, the shot are free, but any arrangement which requires more room, is absolutely prevented by the pressure of the atmosphere.

If there is an excess of water in the bag when the shot are in their maximum density, the bag will change its shape quite freely for a limited extent, but then becomes instantly rigid, supporting 56 lb. without further change. By connecting the bag with a graduated vessel of water, so that the quantity which flows in and out can be measured, the bag again becomes susceptible of any amount of distortion.

Getting the bag into a spherical form, and its contents at maximum density, and then squeezing it between two planes, the moment the squeezing begins the water begins to flow in, and flows in at a diminishing rate until it ceases to draw more water.

The material in the bag is in a condition of minimum density under the circumstances. This does not mean that all the parts are in a condition of minimum density, because the distortion is not the same in all the parts; but some parts have passed through the condition of maximum, while others have not reached it, so that on further distortion the dilatations of the latter balance the contractions of the former. If we continue to squeeze, water begins to flow out until about half as much has run out as came in; then again it begins to flow in. We cannot by squeezing get it back into a condition of uniform maximum density, because the strain is not homogeneous. This is just what would occur if the shot were frictionless; so that it is not surprising to find that, using oil instead of water, or, better (on account of the india-rubber), a strong solution of soap and water, which greatly diminishes the friction, the results are not altered.

On measuring the quantities of water, we find that the greatest quantity drawn in is about 10 per cent. of the volume of the bag; this is about one-third of the difference between the volumes of the shot at minimum and maximum density.

$$\frac{1}{\sqrt{2}} : 1, \text{ or } 30 \text{ per cent. of the latter.}$$

On easing the bag it might be supposed that the shot would return to their initial condition. But that does not follow: the elasticity of form of the bag is so slight compared with its elasticity of volume, that restitution will only take place as long as it is accompanied with contraction of volume.

So long as the point of maximum volume has not been reached, approximate restitution follows quite as nearly as could be expected, considering that friction opposes restitution. But when the squeezing has been carried past the point of maximum volume, then restitution requires expansion; and this the elasticity of shape is not equal to accomplish, so that the bag retains its flattened condition. This experiment has been varied in a great variety of ways.

The very finest quartz sand, or glass balls $\frac{3}{4}$ inch in diameter, all give the same results. Sand is, on the whole, the most convenient material, and its extreme fineness reduces any effect of the squeezing of the india-rubber between the interstices of the balls at the boundaries; which effect is very apparent with the balloon bags, and shot as large as No. 6.

A well-marked phenomenon receives its explanation at once from the existence of dilatancy in sand. When the falling tide leaves the sand firm, as the foot falls on it the sand whitens, or appears momentarily to dry round the foot. When this happens the sand is full of water, the surface of which is kept up to that of the sand by capillary attraction; the pressure of the foot causing dilatation of the sand, more water is required, which has to be obtained either by depressing the level of the surface against the capillary attraction, or by drawing water through the interstices of the surrounding sand. This latter requires time to accomplish, so that for the moment the capillary forces are overcome; the surface of the water is lowered below that of the sand, leaving the latter white or dryer until a sufficient supply has been obtained from below, when the surface rises and wets the sand again. On raising the foot it is generally seen that the sand under the foot and around becomes momentarily wet; this is because, on the distorting forces being removed, the sand again contracts, and the excess of water finds momentary relief at the surface.

Leaving out of account the effect of friction between the balls and the envelope, the results obtained with actual balls, as regards the relation between distortion and dilatation, appear to be the same as would follow if the balls were smooth.

The friction at the boundaries is not important as long as the strain over the boundaries is homogeneous, and particularly if the balls indent themselves into the boundaries, as they do in the case of india-rubber. But with

a plane surface, the balls at the boundaries are in another condition from the balls within. The layer of balls at the surface can only vary its density from $2/\sqrt{3}$ to 1. This means that the layer of balls at a surface can slide between that surface and the adjacent layer, causing much less dilatation than would be caused by the sliding of an internal layer within the mass. Hence, where two parts of the mass are connected by such a surface, certain conditions of strain of the boundaries may be accommodated by a continuous stream of balls adjacent to the surface. This fact made itself evident in two very different experiments.

In order to examine the formation which the shot went through, an ordinary glass funnel was filled with shot and oil, and held vertical while more shot were forced up the spout of the funnel. It was expected that the shot in the funnel would rise as a body, expanding laterally so as to keep the funnel full. This seems to have been the effect at the commencement of the experiment; but after a small quantity had passed up it appeared, looking at the side of the funnel, that the shot were rising much too fast, for which, on looking into the top of the funnel, the reason became apparent. A sheet of shot adjacent to the funnel was rising steadily all round, leaving the interior shot at the same level with only a slight disturbance.

In another experiment one india-rubber ball was filled with sand and water: at the centre of this ball was another much smaller ball, communicating through the sides of the outer envelope by means of a glass pipe with an hydraulic pump. It was expected that, on expanding the interior ball by water, the sand in the outer ball would dilate, expanding the outer ball and drawing more water into the intervening sand. This it did, but not to the extent expected. It was then observed that the outer envelope, instead of expanding, generally bulged in the immediate neighbourhood of the point where the glass tube passed through it; showing that this tube acted as a conductor for the sand from the immediate neighbourhood of the interior ball to the outer envelope, just as the glass sides of the funnel had acted for the shot.

As regards any results which may be expected to follow from the recognition of this property of dilatancy,—

In a practical point of view, it will place the theory of earth-pressures on a true foundation. But inasmuch as the present theory is founded on the angle of repose, which is certainly not altered by the recognition of dilatancy, its effect will be mainly to show the real reason for the angle of repose.

The greatest results are likely to follow in philosophy, and it was with a view to these results that the investigation was undertaken.

The recognition of this property of dilatancy places a hitherto unrecognized mechanical contrivance at the command of those who would explain the fundamental arrangement of the universe, and one which, so far as I have been able to look into it, seems to promise great things, besides possessing the inherent advantage of extreme simplicity.

Hitherto no medium has ever been suggested which would cause a statical force of attraction between two bodies at a distance. Such attraction would be caused by granular media in virtue of this dilatancy and stress. More than this, when two bodies in a granular medium under stress are near together, the effect of dilatancy is to cause forces between the bodies, in very striking accordance with those necessary to explain coherence of matter.

Suppose an outer envelope of sufficiently large extent, at first not absolutely rigid, filled with granular media, at its maximum density. Suppose one of the grains of the media commences to grow into a larger sphere; as it grows, the surrounding medium will be pushed outwards radially from the centre of the expanding sphere. Considering spherical envelopes following the grains of the medium, these will expand as the grains move outwards. This fixes the distortion of the medium, which must be contraction along the radii, and expansion along all tangents.

The consequent amount of dilatation depends on the relation of distortion and dilatation, and on the arrangement of the grains in the medium. At first the entire medium will undergo dilatation, which will diminish as the distance from the centre increases. As the expansion goes on, the medium immediately adjacent to the sphere will first arrive at a condition of minimum density; and for further expansion this will be returning to a maximum density, while that a little further away will have reached a minimum. The effect of continued growth will therefore be, to institute concentric undulations of density from maximum to minimum density, which will move outwards; so that after considerable growth, the sphere will be surrounded with a series of envelopes of alternately maximum and minimum density, the medium at a great distance being at maximum density. At a definite distance from the centre of the sphere not more than

$$1{\cdot}4R,$$

where $R$ is the radius of the sphere, the density will be a minimum, and between this and the sphere there may be a number of alternations, depending on the relative diameters of the grains and the spheres.

The distance between these alternations will diminish rapidly as the sphere is approached. The distance of the next maximum is $1{\cdot}2R$, the next minimum is given by $1{\cdot}09R$, and the next maximum $1{\cdot}06R$.

The general condition of the medium around a sphere which has expanded in the medium, is shown in Fig. 3, which has been arrived at on the supposition that the sphere is large compared with the grains.

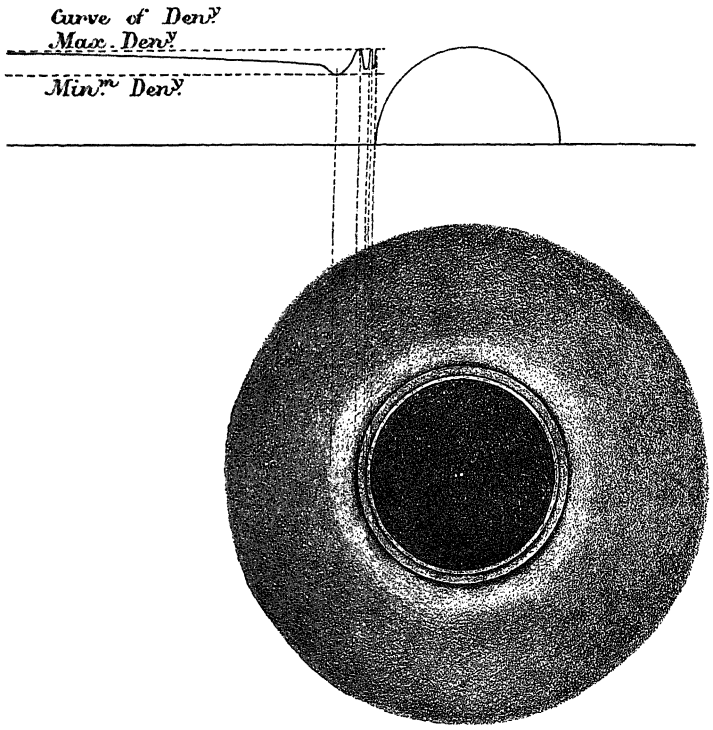



Fig. 3.

From a radius about $1{\cdot}4R$ outwards the density gradually increases, reaching a maximum density at infinity; and at all distances greater than $1{\cdot}8R$ the law is expressed by

$$\frac{de}{dr} = \frac{1}{r^n},$$

where $n$ has some value greater than 3, depending on the structure of the medium.

Within the distance $1{\cdot}4R$ the variation is periodic, with a rapidly diminishing period. In this condition, supposing the medium of unlimited extent and the sphere smooth, the sphere may move without causing further expansion, merely changing the position of the distortion in the medium; for the grains, slipping over the sphere, would come back to their original positions. It thus appears that smooth bodies would move without resistance, if the relation between the size of the grains and bodies is such, that the energy due to the relative motion of the

be neglected. The kinetic energy of the motion of the medium would be proportional to the volume of the ball, multiplied by the density of the medium, and the square of the velocity.

But the momentum might be infinite, supposing the medium infinite in extent, in which case a single sphere would be held rigidly fixed.

If we suppose two balls to expand instead of one, and suppose the distortion of the medium for one ball to be the same as if the other were not there, the result will be a compound distortion. Since, however, the dilatation does not bear a linear relation to the distortion, the dilatation resulting from the compound distortion will not be the sum of the dilatations for the separate distortions, unless we neglect the squares and products of the distortions as small.

Supposing the bodies so far apart that one or other of the separate distortions caused at any point is small, then, retaining squares and products, it appears that the resultant dilatation at any point will be less than the sum of the separate dilatations, by quantities which are proportional to the products of the separate distortions.

The integrals of these terms through the space bounded by spheres of radii $R$ and $L$, are expressed by finite terms, and terms inversely proportional to $L$, which latter vanish if $L$ is infinite. Thus, while the total separate dilatations are infinite, the compound dilatations differ from the sum of the separate by finite terms, and these are functions of the product of the volumes, and the reciprocal of the distance.

Assuming stress in the medium, the difference in the value of these finite terms for two relative positions of the bodies, multiplied by the stresses, represents an amount of work which must be done by the bodies on the medium in moving from one position to another.

To get rid of the difficulty of infinite extent of medium, if for the moment we assume the envelope sufficiently large and imposing a normal pressure upon the medium, then, since the work done will be proportional to the dilatation, the force between the bodies will be proportional to the rate at which this dilatation varies with the distance between them.

The force between the bodies would depend on the character of the elasticity, as well as on the dilatation.

It is not necessary to assume the outer envelope elastic; this may be absolutely rigid, and one or both the balls elastic.

In such case the two balls are connected by a definite kinematic relation.

energy of motion; as they recede, the kinetic energy is spent in the work of compressing the balls.

As already stated, the momentum of the infinite medium for a single ball in finite motion may be infinite, and proportional to the product of the volume of the ball by the velocity; but with two balls moving in opposite directions, with velocities inversely as the masses, the momentum of the system is zero. Therefore such motion may be the only motion possible in a medium of infinite extent.

When the distance between the balls is of the same order as their dimensions, the law of attraction changes with the law of the compound dilatations, and becomes periodic, corresponding to the undulations of density surrounding the balls. Thus, before actual contact was reached, the balls would suffer alternate repulsion and attraction, with positions of equilibrium more or less stable between, as shown in Figs. 4 and 5.

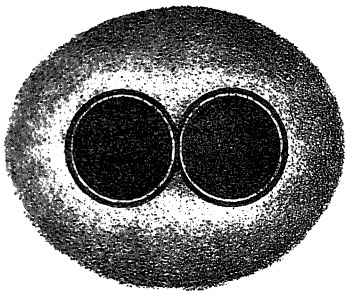


Fig. 4.

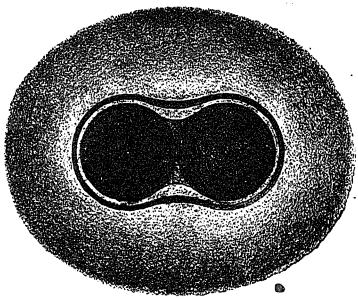


Fig. 5.

We have thus a possible explanation of the cohesion and chemical combination of molecules, which I think is far more in accordance with actual experience than anything hitherto suggested.

It was the observation of these envelopes of maximum and minimum density, which led me to look more fully into the property of dilatancy.

The assumed elasticity of the surrounding envelope, or of the balls, has only been introduced to make the argument clear.

The medium itself may be supposed to possess kinetic elasticity arising from internal distortional motion, such as would arise from the transmission of waves, in which the motion of the medium is in the plane of their fronts.

The fitness of a dilatant medium to transmit such waves is only less striking than its property of causing attraction, because in the first respect it is not unique.

But, as far as I can see, such transmission is not possible in a medium composed of uniform grains. If, however, we have comparatively large grains uniformly interspersed, then such transmission becomes possible. If, notwithstanding the large grains, the medium is at maximum density, the large grains will not be free to move without causing further dilatation; and it seems that the medium would transmit distortional vibrations, in which the distortions of the two sets of grains are opposite.

Such waves, although the motion would be essentially in the plane of the wave, would cause dilatation, just as waves in a chain cause contraction in the reach of the chain. They would in fact impart elasticity to the medium, exactly as, in the case of a slack chain having its ends fixed but otherwise not subject to forces, any lateral motion imparted to the chain will cause tension, proportional to the energy of disturbance divided by the slackness or free length of chain.

Distortional waves therefore, travelling through dilatant material which does not quite occupy the space in which it is confined when at maximum density, would render the medium uniformly elastic to distortion, but not in the same degree to compression or extension. The tension caused by such waves would depend on the gross energy of motion of the waves, divided by the total dilatation from maximum density consequent on the wave-motion. All such waves, whatever might be their length, would therefore move with the same velocity.

If, when rendered elastic by such waves, the medium were thrown into a state of distortion by some external cause, this would diminish the possible dilatation caused by the waves. Thus work would have to be done on the medium in producing the external distortion, which would be spent in increasing the energy of the waves. For instance, the separation of two bodies in such a medium, which, as already shown, would increase the statical distortion, would increase the energy of the waves and *vice versâ*.

As far as the integrations have been carried for this condition of elasticity, it appears, with a certain arrangement of large and small grains, that the forces between the bodies would be proportional to the product of the volumes divided by the square of the distance; *i.e.* that the state of stress of the medium may be the same as Maxwell has shown must exist in the ether to account for gravity. We have thus an instance of a medium, transmitting waves similar to heat-waves, and causing force between bodies similar to the forces of gravitation and cohesion, in such a manner as to constitute a conservative system. More than this, by the separation of the two sets of grains, there would result phenomena similar to those resulting from the separation of the two electricities. The observed conducting power

tible of a state in which the arrangement of the two sets of grains were thrown into opposite distortions, which state, so far as it has yet been examined, appears to coincide with the state of a medium necessary to explain electrodynamic and magnetic phenomena according to Maxwell's theory.

In this short sketch of the results which it appears to me may follow from the recognition of the property of dilatancy, I have not attempted to follow the exact reasoning even so far as I have carried it.

In the preliminary acceptance of a theory, the mind must be guided rather by a general view of its adaptability, than by its definite accordance with some out of many observed facts. And as it seems, after a preliminary investigation, that in space filled with discrete particles, endowed with rigidity, smoothness, and inertia, the property of dilatancy would cause amongst other bodies, not only one property, but all the fundamental properties of matter, I have, in pointing out the existence of dilatancy, ventured to call attention to this dilatant or kinematic theory of ether, without waiting for the completion of the definite integrations, which must take long, although it is by these that the fitness of the hypotheses must be eventually tested.

# 51.

## EXPERIMENTS SHOWING DILATANCY, A PROPERTY OF GRANULAR MATERIAL, POSSIBLY CONNECTED WITH GRAVITATION.

[*From the* "Proceedings of the Royal Institution of Great Britain."]

(*Read* February 12, 1886.)

In commencing this discourse, the author said, My principal object to-night is to show you certain experiments which I have ventured to think would interest you on account of their novelty, and of their paradoxical character. It is not, however, solely or chiefly on account of their being curious that I venture to call your attention to them. Let them have been never so striking, you would not have been troubled with them, had it not been that they afford evidence of a fact of real importance in mechanical philosophy.

This newly recognised property of granular masses, which I have called dilatancy, will, it may be hoped, be rendered intelligible by the experiments, but it was not by these experiments that it was discovered.

This discovery, if I may so call it, was the result of an attempt to conceive the mechanical properties a medium must possess, in order that it might fulfil the functions of an all-pervading ether—not only in transmitting waves of light, and refusing to transmit waves like those of sound, but in causing the force of gravitation between distant bodies, and actions of cohesion, elasticity, and friction between adjacent molecules, together with the electric and magnetic properties of matter, and at the same time allowing the free motion of bodies.

It will be well known to those who attend the lectures in this room, that although a vast increase has been achieved in knowledge of the actions called

the physical properties of matter, we have as yet no satisfactory explanation as to the *prima causa* of these actions themselves; that to explain the transmission of light and heat, it has been found necessary to assume space filled with material possessing the properties of an elastic jelly, the existence of which, though it accounts for the transmission of light, has hitherto seemed inconsistent with the free motion of matter, and failed to afford the slightest reason for the gravitation, cohesion, and other physical properties of matter. To explain these, other forms of ether have been invented, as in the corpuscular theory and the celebrated hypothesis of La Sage, the impossibilities of which hypotheses have been finally proved by the late Professor Maxwell, to whom we owe so much of our definite knowledge of the fundamental physics. Maxwell insisted on the fact, that even if each of the physical properties could be explained by a special ether, it would not advance philosophy, as each of these ethers would require another ether to explain its existence, *ad infinitum*. Maxwell clearly contemplated the existence of one medium, but it was a medium which would cause not one but all the physical properties of matter. His writings are full of definite investigations as to what the mechanical properties of this ether must be, to account for the laws of gravitation, electricity, magnetism, and the transmission of light, and he has proved very clear and definite properties, although, as he distinctly states, he was unable to conceive a mechanism which should possess these properties.

As the result of a long-continued effort to conceive a mechanical system possessing the properties assigned by Maxwell, and further, which would account for the cohesion of the molecules of matter, it became apparent that the simplest conceivable medium—a mass of rigid granules in contact with each other—would answer not one but all the known requirements, provided the shape and mutual fit of the grains were such, that while the grains rigidly preserved their shape, the medium should possess the apparently paradoxical, or anti-sponge property, of swelling in bulk as its shape was altered.

I may here remark, that if ether is atomic or granular, that it should be a mass of grains holding each other in position by contact, like the grains in the sack of corn, is one of only two possible conceptions; the other being that of La Sage, or the corpuscular theory that the grains are free like bullets, moving in space in all directions.

Nor, in spite of its paradoxical sound, is there any great difficulty of conceiving the swelling in bulk. When the grains are in contact, it appears at once that the mechanical properties of the medium must be to some extent affected by the shape and fit of the grains. And having arrived at the conclusion, that in order to act the part of ether, this shape and fit must be such

that the mass could not change its shape, without changing its volume or space occupied, the next thing was to see what possible shape could be given to the grains, so that while these rigidly preserved their shape, the medium might possess this property of dilatancy.

It was obvious that the grains must so interlock, that when any change of shape of the mass occurred, the interstices between the grains should increase. This would be possessed by grains shaped to fit into each other's interstices in one particular arrangement.

In an ordinary mass of brickwork or masonry well bonded without mortar, the blocks fit so as to have no interstices; but if the pile be in any way distorted, interstices appear, which shows that the space occupied by the entire mass has increased. (*Shown by a model.*)

At first it appeared that there must be something special and systematic, as in the brick wall, in the fit of the grain of ether, but subsequent consideration revealed the striking fact, *that a medium composed of grains, of any possible shape, possessed this property of dilatancy, so long as one important condition was satisfied.*

This condition is, that the medium should be continuous, infinite in extent, or that the grains at the boundary should be so held as to prevent a rearrangement commencing. All that is wanted is a mass of hard smooth grains, each grain being held by the adjacent grains, and the grains on the outside prevented from rearranging.

Smooth hard spheres arranged as an ordinary pile of shot are in their closest order, the interstices occupying a space about one-third that occupied by the spheres themselves. By forcing the outside shot so as to give the pile a different shape, the inside spheres are forced by those on the outside, and the interstices increase. Thus by shaping the outside of the pile, the interstices may be increased to any extent, until they occupy about nine-tenths of the volume of the spheres: this is the most open formation. A further change of shape in the same direction causes a contraction of the interstices, until a minimum volume is reached, and then again an expansion, and so on. The point to be realised is, that in any of these arrangements, if the whole of the spheres on the outside of the group are fixed, those inside will be fixed also. (*Shown by a model.*)

An interior portion of a mass of smooth hard spheres therefore cannot have its shape changed by the surrounding spheres, without altering the room it occupies, and the same is true for any granular mass, whatever be the shape of the grains.

Considering the generality of this conclusion, the non-discovery of this

The physical properties of elasticity, adhesion, and friction, so far render the molecules of ordinary matter incapable of behaving as a system of parts with the sole property of keeping their shape, and so prevent evidence of dilatancy in solids and fluids. This is quite consistent with dilatancy in the ether, for the properties of elasticity, cohesion, and friction, in tangible matter, are due to the presence of the ether, so that it would be illogical for the elementary atoms of the ether to possess these properties.

This, although a sufficient reason why dilatancy has not been recognised as a property of solid and fluid matter, does not explain its non-existence in masses of solid, hard, free grains, as of corn, shot, and sand. To understand why it has not been observed in these, it must be remembered that, to ordinary observation, these present only an outside appearance, and that the condition essential for dilatancy, that the outside grains should not be free to rearrange, is seldom fulfilled. Also these granular forms of matter, though commonplace, have not been the subjects of physical research, and hence such evidence as they do afford has escaped detection.

Once, however, having recognised dilatancy as a universal property of granular masses, it was obvious that if evidence of it was to be sought from tangible matter, it must be sought in what have hitherto been the most commonplace and least interesting arrangements. That an important geometrical and mechanical property of a material system should have been hidden for thousands of years, even in sand and corn, is such a striking thought, that it required no little faith in mechanical principles to undertake the search for it, and although finding nothing but what was strictly in accordance with the conclusions previously arrived at, the evidence obtained of this long-hidden property was as much a matter of visual surprise to the lecturer, as it can be to any of the audience.

To render the dilatancy of a granular mass evident, it was necessary to accomplish two things: (1) the outside grains must be controlled so that they could not rearrange, and this without preventing change of shape and bulk of the mass; (2) the changes of bulk or volume of the mass, or of the interstices between the grains, must be rendered evident by some method of measurement which did not depend on the shape of the mass.

A very simple means—*a thin india-rubber* envelope or boundary—answered both these purposes to perfection. The thin india-rubber closed over the outside grains sufficiently to prevent their change of position, and the impervious character of the bag allowed of a continuous measure of the volume of the contents, by measuring the quantity of air or water necessary to fill the interstices.

Taking an india-rubber bag which will hold six pints of water, without stretching, and having only a small tubular aperture, getting it quite dry

and putting into it six pints of dry sea sand, such as will run in an hour-glass, sharp river sand, dry corn, shot or glass marbles, it presents no very striking appearance, but all the same when filled with any of these materials, it cannot have its form changed, as by squeezing between two boards, without changing its volume. These changes of volume are not sufficient to be noticeable while the squeezing is going on, but they may be rendered apparent. It is sufficient to do this with the bag full of clean dry Calais sand, such as is used in an hour-glass.

The tube from the bag is connected with a mercurial pressure-gauge, so that the bag is closed by the mercury.

The actual volume occupied by the quartz grains is four and a half pints. The remaining space, one and a half pints, is occupied by the interstices between the grains in their closest order; these interstices are full of air, so that three-quarters of the bag are occupied by quartz, and one-quarter by air. Since the bag is closed, and no more air can get in, if interstices are increased from one pint and a half to two pints, the air must expand, and its pressure will fall from that of the atmosphere to three-quarters of an atmosphere. As soon as squeezing begins, the mercury rises on the side connected with the bag, and steadily rises as the bag flattens, until it has risen seven inches, showing that the bag has increased in capacity by half a pint, or one-twelfth of its initial capacity.

That by squeezing a porous mass like sand we should diminish the pressure of the air in the pores is paradoxical, and shows the anti-sponginess of the granular material; had there been a sponge in the bag, the pressure of the air would have increased with the squeezing.

This experiment has been mainly introduced to prevent a possible impression that the fluid filling the interstices has anything to do with the dilatation besides measuring it.

Water affords a more definite measure of volume than air.

Taking a small india-rubber bottle with a glass neck full of shot and water, so that the water stands well into the neck. If instead of shot the bag were full of water, or had anything of the nature of a sponge in it, when the bag was squeezed the water would be forced up the neck. With the shot the opposite result is obtained; as I squeeze the bag, the water decidedly shrinks in the neck.

This experiment, which you see is on a very small scale, was not designed to show to an audience; it was the original experiment which was made for my own satisfaction, when the idea of dilatancy first presented itself. The result, but for the knowledge of dilatancy, would appear paradoxical, not to say magical. When we squeeze a sponge between two planes, water

s squeezed out; when we squeeze sand, shot, or granular material, water s drawn in.

Taking a larger apparatus, a bag which holds six pints of sand, the nterstices of which are full of water without any air—the glass neck being graduated so as to measure the water drawn in. On squeezing the bag with a large pair of pincers, a pint of water is drawn from the neck into he bag. This is the maximum dilatation; the grains of sand are now in he most open order into which they can be brought by this squeezing; further squeezing causes them to take closer order, the interstices diminish, nd the water runs out into the vessel, and for still further squeezing is drawn back again, showing that as the change of form continues, the nedium passes through maximum and minimum dilatations.

This experiment may be repeated with granules of any size or shape, provided they are hard, and shows the universality of dilatancy.

Although not more definite, perhaps more striking evidence of dilatancy s afforded by the means which the non-expansibility of water affords of imiting the volume of the bag. An impervious bag full of sand and water vithout air cannot have its contents enlarged without creating a vacuum nside it—the interstices of the sand are therefore strictly limited to the volume of the water inside it, unless forces are brought to bear sufficient o overcome the pressure of the atmosphere and create a vacuum. Since hen, owing to this property of dilatancy, the shape of a granular mass at ts greatest density cannot change without enlarging the interstices, if we prevent this enlargement by closing the bag we prevent change of shape.

Taking the same bag, the sand being at its closest order—and closing he neck so that it cannot draw more water. A severe pinch is put on he bag, but it does not change its shape at all; the shape cannot alter vithout enlarging the interstices, which cannot enlarge without drawing nore water, and this is prevented. To show that there is an effort to enlarge oing on, it is only necessary to open a communication with a pressure-auge, as in the experiment with air. The mercury rises on the side of the ag, showing when the pinch is hardest (about 200 lbs. on the planes) that he pressure in the bag is less by 27 inches of mercury than the pressure f the atmosphere; a little more squeezing and there is a vacuum in the ag. Without a knowledge of the property of dilatancy such a method f producing a vacuum would sound somewhat paradoxical. Opening the eck to allow the entrance of water, the bag at once yields to a slight ressure, changing shape, but this change at once stops when the supply cut off, preventing further dilatation.

In these experiments neither the thickness of the bag, nor the character f the fluid, has anything to do with the dilatation of the contents,

considered as forming an interior group of a continuous medium, the bag merely controlling the outside members as they would be controlled by surrounding grains, and the fluid merely measuring or limiting the volume of the interstices.

It has, however, been absence of such control of the outside grains, and such means of measuring the volume of the interstices, that has prevented the dilatancy revealing itself as a general mechanical property of granular material; as a *mechanical* property, because dilatancy has long been known to those who buy and sell corn. It is seldom left for the philosopher to discover anything which has a direct influence on pecuniary interests; and when corn was bought and sold by *measure*, it was in the interest of the vendor to make the interstices as large as possible, and of the vendee to make them as small; of the vendor to make the corn lie as lightly as possible, and of the vendee to get it as dense as possible. These interests are obvious; but the methods of getting corn dense and light are *paradoxical* when compared with the methods for other material. If we want to get any elastic material light we shake it up, as a pillow or a feather bed, or a basket of dried fruit; to get these dense we squeeze them into the measure. With corn it is the reverse; it is no good squeezing it to get it dense; if we try to press it into the measure we make it light—to get it dense we must shake it—which, owing to the surface of the measure being free, causes a rearrangement in which the grains take the closest order.

At the present day the measure for corn has been replaced by the scales, but years ago corn was bought and sold by measure only, and measuring was then an art which is still preserved. It is understood that the corn is to be measured light, and the method employed is now seen to have made use of the property of dilatancy. The measure is filled over full and the top struck with a round pin called the strake or strickle. The universal art is to put the strake end on into the measure before commencing to fill it. Then when heaped full, to pull the strake gently out and strike the top; if now the measure be shaken it will be seen that it is only nine-tenths full.

Sand presents many striking phenomena well known but not hitherto explained, which are now seen to be simply evidence of dilatancy.

Every one who walks on the strand must have been painfully struck with the difference in the firmness and softness of the sand at different times; letting alone when it is quite dry and loose. At one time it will be so firm and hard that you may walk with high heels without leaving a footprint; while at others, although the sand is not dry, one sinks in so as to make walking painful. Had you noticed you would have found that the sand is firm as the tide falls, and becomes soft again after it has been left dry for some hours. The reason for this difference is exactly the same as

that of the closed bags with water and air in the interstices of the sand. The tide leaves the sand, though apparently dry on the surface, with all its interstices perfectly full of water, which is kept up to the surface of the sand by capillary attraction; at the same time the water is percolating through the sand from the sands above, where the capillary action is not sufficient to hold the water. When the foot falls on this water-saturated sand, it tends to change its shape, but it cannot do this without enlarging the interstices—without drawing in more water. This is a work of time, so that the foot is gone again before the sand has yielded. If you stand still, you will find that your feet sink more or less, and that when you move, the sand becomes wet all round the space you stood on, which is the excess of water you have drawn in, set free by the sand regaining its densest form.

One phenomenon attending walking on firm sand is very striking; as the foot falls, the sand all round appears to shoot white or dry momentarily, soon becoming dark again. This is the suction into the enlarging interstices below the foot, which for the moment depresses the capillary surface of the water below that of the sand.

After the tide has left the sand for a sufficient time, the greater part of the water has run out of the interstices, leaving them full of air, which by expanding allows the interstices to enlarge, and the foot to sink in far enough to make walking unpleasant.

If we walk on sand under water, it is always more or less soft, for the interstices can enlarge, drawing in water from above.

The firmness of the sand is thus seen to be due to the interstices being full of water, and to the capillary action or surface tension of the water at the surface of the sand. This capillary action will hold the water up in the sand for some inches or feet, according to the fineness of the sand. This is shown by a somewhat striking experiment. If sand running in a stream from a small hole in the bottom of a vessel, as in an hour-glass, fall into a vessel containing a slight depth of water, the sand at first forms an island, which rises above the water. The sand which then falls on the top of this island is dry as it falls, but capillary action draws up the water which fills the interstices and gives the sand coherence. The island grows vertically, very fast, and assumes the form of a column, sometimes with branches like a tree or a fern, some inches or even a foot high. The strength of these consists in the surface tension of the water preventing air from being drawn in to enlarge the interstices, which therefore cannot change shape; it is therefore another evidence of dilatancy.

By substituting an impervious envelope for the surface of water, firmness of sand saturated with water may be rendered very striking.

Thin india-rubber balloons, which may be easily expanded with the mouth, afford an almost transparent envelope.

Taking one containing about six pints of sand and water, closed without air, there being more water than will fill the interstices at the densest, but not enough to allow them to enlarge to the full extent. When standing on the table, the elasticity of the envelope gives it a rounded shape. The sand has settled down to the bottom, and the excess of water appears above the sand, the surface of which is free. The bag may be squeezed and its shape altered, apparently as though it had no firmness, but this is only so long as the surface is free. But taking it between two vertical plates and squeezing, at first it submits, apparently without resistance, when all at once it comes to a dead stop. Turning it on to its side, a 56-lb. weight produces no further alteration of shape; but on removing the weight, the bag at once returns to its almost rounded shape.

Putting the bag now between two vertical plates, and slightly shaking while squeezing, so as to keep the sand at its densest, while it still has a free surface, it can be pressed out until it is a broad flat plate. It is still soft as long as it is squeezed, but the moment the pressure is removed, the elasticity of the bag tends to draw it back to its rounded form, changing its shape, enlarging the interstices, and absorbing the excess of water; this is soon gone, and the bag remains a flat cake with peculiar properties. To pressures on its sides it at once yields, such pressures having nothing to overcome but the elasticity of the bag, for change of shape in that direction causes the sand to contract. To radial pressures on its rim, however, it is perfectly rigid, as such pressures tend further to dilate the sand; when placed on its edge, it bears one cwt. without flinching.

If, however, while supporting the weight it is pressed sufficiently on the sides, all strength vanishes, and it is again a rounded bag of loose sand and water.

By shaking the bag into a mould, it can be made to take any shape; then, by drawing off the excess of water and closing the bag, the sand becomes perfectly rigid, and will not change its shape without the envelope be torn; no amount of shaking will effect a change. In this way bricks can be made of sand or fine shot full of water and the thinnest india-rubber envelope, which will stand as much pressure as ordinary bricks without change of shape; also permanent casts of figures may be taken.

I have now shown, as fully as time will allow, the experiments which afford evidence of the existence of the property of dilatancy, and how it explains natural phenomena hitherto but little noticed.

these experiments have no direct connection with gravitation or the physical properties of matter.

These properties cannot be deduced by direct experiment on granular material, for the simple reason that the grains of the medium which constitutes the ether must be free from friction, while the grains with which we work are subject to friction. These properties can only be deduced by mathematical reasoning, into which I will not drag you to-night. I will merely point out two or three facts, which may serve to convey an idea of how dilatancy should have such a bearing on the foundation of the universe.

If you look at this diagram, you see it represents a ball surrounded by a continuous mass of grain, the density of the grains being indicated by the depth of colour. If that ball were to grow in volume, it would have to push out the medium on all sides, and in that way it would distort the groups of grains, or change their form, causing the interstices to increase; those nearer the ball would be distorted more than those further away. Then the interstices of these would grow the most rapidly, and those adjacent to the ball would first come to their openest order for further growth; these would contract somewhat, those a little further away would reach the openest order, and if the process of growth steadily continued, we should have a series of undulations of density, commencing at the ball and moving outwards; the first of these waves of open order would not, however, get beyond half the diameter of the ball away. The diagram represents the interstices that would result, if a single grain of the material had grown to the size of the ball, pushing the medium out before it. It is not necessary that the ball should have grown, to produce this result; however the ball were originally placed, if it were moved away from its original place, it would assume this arrangement, and with this arrangement it would be free to move. Now, although I cannot attempt to enter upon the relation between the density of the medium, and the force of attraction between two bodies in it, I may call your attention to this fact, that the dilatation as calculated, varies exactly as the force of gravitation, inversely as the square of the distance from an infinite distance till close to the ball, and then goes through several undulations, corresponding exactly to the variations in the attraction of bodies necessary to explain the elasticity and cohesion of molecules. As is shown in the other diagrams, these undulations in density, which may be experimentally produced, not only appear to afford a clear explanation of cohesion, but are the only suggestion of an explanation ever made. And further, similar undulations have been found necessary to explain one of the phenomena of light. My reason for calling your attention to them was partly an experiment, which, although not the most striking, is the most advanced experiment in the direction of dilatancy.

tained in the large elastic bag; in the middle of this bag is a small hollow elastic ball, which can be expanded by water forced in through a tube passing through the medium and outside ball; the quantity of water which passes in is measured by a mercury gauge, the water being forced in by the pressure of the mercury. The medium between the two balls is sand and water, and is connected with a gauge, the water drawn from which measures the dilatation.

The full pressure of 30 inches is on the interior ball, but produces no expansion, because the medium outside cannot dilate, as the supply of water is now cut off; opening the tap to admit water to the outer ball, it at once draws water. It has now drawn 3 oz.; in the meantime the mercury has fallen, showing that an ounce and a half was admitted to the interior ball, the expansion of which drew the water into the outer envelope. This experiment is not striking, but it is definite, and enables us to measure the dilatation consequent on a given distortion.

It is impossible for me to go further into this explanation, so I will merely state that the ability of the grains of a medium to slide over a smooth surface has been experimentally shown to produce phenomena closely resembling the conduction of electricity, to complete which it is only necessary to construct the medium of two different sorts of grains, different in size or different in shape, the separation of which would afford the two electricities, and be a simple way out of the difficulty hitherto found in explaining the non-exhaustibility of the electricity in a body. Hitherto the two electric fluids have been supposed to reside together in the matter of the machine, which, however much has been withdrawn, has never shown signs of exhaustion. In the dilatant hypothesis, these electricities are the two constituents of the ether which the machine separates, and it is worth noticing that the ordinary electrical machine resembles in all essential particulars the machines used by seedsmen for separating two kinds of seed, trefoil and rye-grass, which grow together: as long as there is a supply of the mixture, the machine is never exhausted.

This dilatant hypothesis of ether is very promising, although it cannot be put forward as proved until it has been worked out in detail, which will take long. In the meantime it is put forward mainly to excite interest in the property of dilatancy, to the discovery of which it has led. This property, now that it has once been recognised, is quite independent of any hypothesis, and offers a new field for philosophical and mathematical research quite independent of the ether.

# 52.

# ON THE THEORY OF LUBRICATION AND ITS APPLICATION TO MR BEAUCHAMP TOWER'S EXPERIMENTS, INCLUDING AN EXPERIMENTAL DETERMINATION OF THE VISCOSITY OF OLIVE OIL.

[*From the* "Philosophical Transactions of the Royal Society," Part I., 1886.]

## Section I.—Introductory.

1. Lubrication, or the action of oils and other viscous fluids to diminish friction and wear between solid surfaces, does not appear to have hitherto formed a subject for theoretical treatment. Such treatment may have been prevented by the obscurity of the physical actions involved, which belong to a class as yet but little known, namely, the boundary or surface actions of fluids; but the absence of such treatment has also been owing to the want of any general laws discovered by experiment.

The subject is of such fundamental importance in practical mechanics, and the opportunities for observation are so frequent, that it may well be a matter of surprise that any general laws should have for so long escaped detection.

Besides the general experience obtained, the friction of lubricated surfaces has been the subject of much experimental investigation by able and careful experimenters. But, although in many cases empirical laws have been propounded, these fail for the most part to agree with each other and with the more general experience.

2. The most recent investigation is that of Mr Beauchamp Tower, undertaken at the instance of the Institution of Mechanical Engineers. Mr Tower's first report was published November, 1883, and his second report in 1884 (*Proc. Inst. Mechanical Engineers*).

In these reports Mr Tower, making no attempt to formulate, states the results of experiments apparently conducted with extreme care and under very various and well-chosen circumstances. Those results which were obtained under the ordinary conditions of lubrication so far agree with the results of previous investigators as to show a want of any regularity. But one of the causes of this want of regularity, irregularity in the supply of the lubricant, appears to have occurred to Mr Tower early in his investigation, and led him to include amongst his experiments the unusual circumstances of surfaces completely immersed in oil. This was very fortunate, for not only do the results so obtained show a great degree of regularity, but while making these experiments he was accidentally led to observe a phenomenon which, taken with the results of his experiments, amounts to a crucial proof that in these experiments with the oil bath the surfaces were completely and continuously separated by a film of oil; this film being maintained by the motion of the journal, although the pressure in the oil at the crown of the bearing was shown by actual measurement to be as much as 625 lbs. per sq. inch above the pressure in the oil bath.

These results obtained with the oil bath are very important, notwithstanding that the condition is not common in practice. They show that with perfect lubrication a definite law of variation of the friction with the pressure and velocity holds for a particular journal and brass. This strongly implies that the irregularity previously found was due to imperfect lubrication. Mr Tower has brought this out:—Substituting for the bath an oily pad, pressed against the free part of the journal, and making it so slightly greasy that it was barely perceptible to the touch, he again found considerable regularity in the results; these, however, were very different from those with the bath. Then with intermediate lubrication he obtained intermediate results, of which he says:—"Indeed, the results, generally speaking, were so uncertain and irregular that they may be summed up in a few words. The friction depends on the quantity and uniform distribution of the oil, and may be anything between the oil bath results and seizing, according to the perfection or imperfection of the lubrication."

3. On reading Mr Tower's report it occurred to the author as possible that, in the case of the oil bath, the film of oil might be sufficiently thick for the unknown boundary actions to disappear, in which case the results would be deducible from the equations of hydrodynamics. Mr Tower appears to have considered this, for he remarks that according to the theory of fluid friction the resistance would be as the square of the velocity, whereas in his results it does not increase according to this law. Considering how very general the law of resistance as the square of the velocity is with fluids,

But the study of the behaviour of fluid in very small channels, and particularly the recent determination by the author of the critical velocity at which this law changes from that of the square of the velocity to that of the simple ratio, shows that with such highly viscous fluids as oils, such small spaces as those existing between the journal and its bearing, and such limited velocity as that of the surface of the journal, the resistance would vary, *cæteris paribus*, as the velocity. Further, the thickness of the oil film would not be uniform and might be affected by the velocity, and as the resistance would vary, *cæteris paribus*, inversely as the thickness of the film, the velocity might exert in this way a secondary effect on the resistance; and, further still, the resistance would depend on the viscosity of the oil, and this depends on the temperature. But as Mr Tower had been careful to make all his experiments in the same series with the journal at a temperature of 90° Fahr., it did not at first appear that there could be any considerable temperature effect in his results.

4. The application of the hydrodynamical equations to circumstances similar in so far as they were known to those of Mr Tower's experiments, at once led to an equation between the variation of pressure over the surface and the velocity, which equation appeared to explain the existence of the film of oil at high pressure. This equation was mentioned in a paper read before Section A. of the British Association at Montreal, 1884. It also appears from a paragraph in the President's Address (*Brit. Assoc. Rep.*, 1884, p. 14) that Professor Stokes and Lord Rayleigh had simultaneously arrived at a similar result. At that time the author had no idea of attempting its integration. On subsequent consideration, however, it appeared that the equation might be transformed so as to be approximately integrated, and the theoretical results thus definitely compared with the experimental.

5. The result of this comparison was to show that with a particular journal and brass, the mean thickness of the film of oil would be sensibly constant, and hence, if the viscosity was constant, the resistance would increase directly as the speed. As this was not in accordance with Mr Tower's experiments, in which the resistance increased at a much slower rate, it appeared that either the boundary actions became sensible, or that there must have been a rise in the temperature of the oil which had escaped the thermometers used to measure the temperature of the journal.

That there would be some excess of temperature in the oil film, on which all the work of overcoming the friction is spent, is certain; and after carefully considering the means of escape of this heat, it seems probable that there would be a difference of several degrees between the oil bath and the film of oil.

This increase of temperature would be attended by a diminution of viscosity, so that, as the resistance and temperature increased with the velocity, the viscosity would diminish and cause a departure from the simple ratio.

6. In order to obtain a quantitative estimate of these secondary effects, it was necessary to know exactly the relation between the viscosity and temperature of the lubricant used. For this purpose an experimental determination was made of the viscosity of olive oil at different temperatures as compared with the known viscosity of water. From the results of these experiments an empirical formula has been deduced, by means of which definite expressions have been obtained for the approximate variation of the viscosity with the speed and load. Taking these variations of viscosity into account, the results obtained from the hydrodynamical theory are brought into complete accordance with these experiments of Mr Tower. Thus we have not only an explanation of the very novel phenomena brought to light by these experiments, and what appears to be an important verification of the assumptions on which the theory of hydrodynamics is founded, but we also find, what is not shown in the experiments, how the various circumstances under which the experiments have been made affect the results.

7. Two circumstances particularly are brought out in the theory as principal circumstances which seem to have hitherto entirely escaped notice, even that of Mr Tower.

One of these is the difference in the radii of the journal and of the brass or bearing.

It is well known that the fitting between the journal and its bearing produces a great effect on the carrying power of the journal, but this fitting is rather supposed to be a matter of smoothness of surface than a degree of correspondence in radii. The radius of the bearing must always be as much larger than that of the journal as is necessary to secure an easy fit; but more than this, I think, has never been suggested.

Now it appears from the theory that if viscosity were constant the friction would be inversely proportional to the difference in radii of the journal and the bearing, and this although the arc of contact is less than the semicircumference. Taking the temperature into account, it appears, from the comparison of the theoretical results with the experimental, that at a temperature of 70°·5 Fahr. the radius of one of the brasses used was ·00077 inch greater than that of the journal, while at a temperature of 70° Fahr. that of the other was ·00084 inch, or 9 per cent. larger than the first.

These two brasses were probably both bedded to the journal in the same

that there is nothing surprising in their being so nearly the same fit. It would be extremely interesting to find whether prolonged wear of the brass tends to preserve or destroy the fit. This does not appear from Mr Tower's experiments. It does appear, however, that with an increase of temperature the brass expands more than the journal, and that its radius increases as the load increases in a very definite manner.

Another circumstance brought out by the theory, and remarked on both by Lord Rayleigh and the author at Montreal, but not before expected, is that the point of nearest approach of the journal to the brass is not by any means in the line of the load, and, what is still more contrary to common supposition, is on the *off** side of the line of load.

This circumstance, the reason for which is rendered perfectly clear by the conditions of equilibrium, at once accounts for a singular phenomenon mentioned by Mr Tower, viz., that the journal having been run in one direction until the initial tendency to heat had entirely disappeared, on being reversed it immediately began to heat again; but this effect stopped when the process had been often repeated. The fact being that running in one direction the brass had been worn to the journal only on the *off* side for that direction, so that when the motion was reversed the new *off* side was like a new brass.

7 A. The circumstances which determine the greatest load which a bearing will carry with complete lubrication, *i.e.*, with the film of oil extending between brass and journal throughout the entire arc, are definitely shown in the theory.

The effect of increasing the load beyond a certain small value, being to cause the brass to approach nearer to the journal at a point $H$, which moves

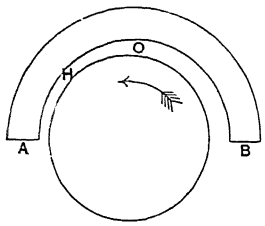



Fig. 1.

from $A$ towards $O$ as the load increases, and when the load is such that the least separating distance is about half the difference of radii, the angular

* "On" and "off" sides of the line of load are used by Mr Tower to express respectively the sides of approach and succession, as $B$ and $A$ in the figure, the arrow indicating the direction of

position of $H$ is 40° to the off side of $O$, the middle of the brass. At this point the pressure in the oil film is everywhere greater than at $A$ and $B$, the extremities of the brass, but when the load further increases the pressure towards $A$ on the off side becomes smaller or negative. This, when sufficient, will cause rupture in the oil film, which will then only extend between the brass and journal over a portion of the whole arc, and a smaller portion as the load increases. Thus, since the amount of negative pressure which the oil will bear, depends on circumstances which are uncertain, the limit of the safe load for complete lubrication is that which causes the least separating distance to be half the distance of radii of the brass and journal.

The rupture of the oil film does not take place at the point of nearest approach, and hence the brass may still be entirely separate from the journal, and could the integrations be effected it would be possible to deal as definitely with this condition as with that of complete lubrication; but these difficulties have limited the actual application of the theory to complete lubrication. This however by no means requires an oil bath, but merely sufficient oil on the journal.

What happens when the supply of oil is limited, *i.e.*, insufficient for complete lubrication, cannot be definitely expressed without further integrations; but sufficient may be seen to show that the brass will still be completely separated from the journal, although the separating film will not touch the brass, except over a limited area; but in this case it is easy to show by general reasoning that in the one extreme, where the supply of oil is limited, the friction increases directly as the load and is independent of the velocity, while in the other, where the oil is abundant, the circumstances are those of the oil bath.

The effect of the limited length of the journal is also apparent in the equations, as is also the effect of necking the shaft to form the journal, so that the ends of the brass are against flanges on the shaft.

The theory is perfectly applicable to cases in which the direction of the load on the bearing varies, as with the crank pin and with the bearings of the crank shaft of the steam-engine; but these cases have not been considered, as there are no definite experiments to compare.

8. Although in the main the present investigation has been directed to the circumstances of Mr Tower's experiments, viz., a cylindrical journal revolving in a cylindrical brass, it has, on the one hand, been found necessary to proceed from the general equations of equilibrium of viscous fluids, and, on the other hand, to consider somewhat generally the physical property of

The property of viscosity has been discussed at length in Section II.; which section also contains the account of an experimental investigation as to the viscosity of olive oil.

The general theory deduced from the hydrodynamical equations for viscous fluids, with the methods of application, is given in Sections IV., V., VI., VII., and VIII.

As there are some considerations which cannot be taken into account in the more general method, which method also tends to render obscure the more immediate purpose of the investigation, a preliminary discussion of the problem, illustrated by aid of the graphic method, has been introduced as Section III. Finally, the definite application of the theory to Mr Tower's experiments is given in Section IX.

## Section II.—The Properties of Lubricants.

### 9. *The Definition of Viscosity.*

In distinguishing between solid and fluid matter, it is customary to define fluid as a state of matter incapable of sustaining tangential or shearing stress. This definition, however, as is well known, is only true as applied to *actual* fluids when at rest. The resistance encountered by water and all known fluids flowing steadily along parallel channels, affords definite proof that in certain states of motion all actual fluids will sustain shearing stress. These actual fluids are, therefore, called in the language of mathematics imperfect or viscous fluids.

In order to obtain the equations of motion of such fluids, it has been necessary to define clearly the property of viscosity. This definition has been obtained from the consideration that to cause shearing stress in a body it is necessary to submit it to forces tending to change its shape. Forces tending to cause a general motion, whether linear, revolving, uniform expansion, or uniform contraction, call forth no shearing stress.

Using the term *distortion* to express change of shape, apart from change of position, uniform expansion, or contraction, the viscosity of a fluid is defined as the shearing stress caused in the fluid while undergoing distortion, and the shearing stress divided by the rate of distortion is called the coefficient of viscosity, or, commonly, the viscosity of the fluid.

This is best expressed by considering a mass of fluid bounded by two parallel planes at a distance $a$ and supposing the fluid between these planes

to be in motion in a direction parallel to these surfaces with a velocity which varies uniformly from 0 at one of these surfaces to $u$ at the other. Then the rate of distortion is

$$\frac{u}{a}$$

and the shearing stress on a plane parallel to the motion is expressed by

$$f = \mu \frac{u}{a} \quad \text{.....(1),}$$

$\mu$ being the coefficient of viscosity or the modulus of the resistance to distortional motion.

## 10. *The Character of Viscosity.*

In dealing with ideal fluids, it is of course allowable to consider $\mu$ as being zero or having any conceivable value; but practically, as regards natural philosophy, the value of any such considerations depends on whether the calculated behaviour of the ideal fluid is found to agree with the behaviour of the actual fluids—whether taking a particular fluid, a value of $\mu$ can be found such that the values of $f$ calculated by equation (1) agree with the values of $f$ determined by experiments for all values of $a$ and $u$.

In the mathematical theory of viscous fluid, $\mu$ is assumed to be constant for a particular fluid. This supposition is sometimes justified by reference to some assumed dynamical constitution of fluids; but apart from such hypotheses there is no more ground for supposing a constant value for $\mu$ than there is for supposing a particular law of gravitation, in other words, there is no ground at all. If a particular value of $\mu$ is found to bring the calculated results into agreement with all experimental results, then this value of $\mu$ defines a property of actual fluids, and of course it has been with this object that the mathematical theory of $\mu$ has been studied.

The chief question as regards $\mu$ is a simple one—within a particular fluid is $\mu$ constant? In other words, is viscosity a property of a fluid like inertia which is independent of its motion? If it is, our equations may be useful; if it is not then the introduction of $\mu$ into the equations renders them so complex that it is almost hopeless to expect anything from them.

Another question of scarcely less practical importance relates to the character of $\mu$ near the bounding surfaces of the fluid. If $\mu$ is constant in the fluid, does it change its value near the boundary of the fluid? Is there anything like slipping between the fluid and a solid boundary with which it is in contact?

As regards the answers to these questions the present position is some-

## 11. *The Two Viscosities.*

The general experience that the resistance varies as the square of the velocity is an absolute proof that $\mu$ is not constant unless a restricted meaning be given to the definition of viscosity, excluding such part of the resistance as may be due, in the way explained by Prof. Stokes*, to internal eddies or cross streams, however insensible these may be, so long as they are not simply molecular motions.

On the other hand in the definite experiments made by Colomb, and particularly by Poiseuille, it was found that the resistance was proportional to the velocity, and therefore that $\mu$ was absolutely constant—*i.e.*, independent of the velocity†.

To meet this discordance it has been supposed that $\mu$ varied with the rate of distortion—*i.e.*, is a function of $u/a$, but is sensibly constant when $u/a$ is small‡.

To assume this, however, is to neglect Poiseuille's experiments, in which he found for water the resistance absolutely proportional to the velocity in a tube ·6 mm. diameter up to a velocity of 6 metres per second, which corresponds to a value of $u/a = 20{,}000$.

On the other hand it is found by Darcy§ and others in large tubes that the resistance varies as the square of the velocity for values of $\frac{u}{a}$, as low as 1. Thus in a tube of ·6 mm. we have $\mu$ constant for all rates of distortion below 20,000, while in a tube of 500 mm. diameter $\mu$ is a function of the distortion for all values greater than 1.

It is, therefore, clear that if $\mu$ is a function of the distortion it must also be a function of the dimensions of the channels, and in that case $\mu$ cannot be considered as a property of the fluid only.

The change in the law of resistance from the simple ratio has, however, been shown by the author to be due to a change in the character of the motion of the fluid from that of direct parallel motion to that of sinuous or eddying motion‖.

* Stokes's *Reprint*, vol. I., p. 99.

† *Paris Mém. Savans Étrang.*, tom. 9 (1846), p. 434.

‡ Lamb's *Motion of Fluids*, 1879, Art. 180.

§ *Recherches Expl.* Paris, 1852.

‖ "An Experimental Investigation of the circumstances which determine whether the Motion

In the latter case, although the mean motion at any point taken over a sufficient time is parallel to the pipe, it is made up of a succession of motions crossing the pipe in different directions.

The question as to whether, in the case of sinuous motion, $\mu$ is to be considered as a function of the velocity or not, depends on whether we regard $f$ as expressing the instantaneous shearing stress at a point, or the mean over a sufficient time. Whether we regard the symbols in the equations of motion as expressing the instantaneous motion or the mean taken over a sufficient time.

If the latter, then $\mu$ must be held to include, in addition to the mean stress, the momentum per second parallel to $u$ carried by the cross streams in the negative direction across the surface over which $f$ is measured.

If, however, we regard the motion at each instant, then we must restrict our definition of viscosity by making $f$ the instantaneous value of the intensity of resistance at a point.

This is a quantity which we have and can have no means of measuring except under circumstances which secure that $f$ is constant for all points over a given surface, and for all instants over a given time.

It thus appears that there are two essentially distinct viscosities in fluids. The one a mechanical viscosity arising from the molar motion of the fluid, the other a physical property of the fluid. It is worth while to point out that, although the conditions under which the first of these—the mechanical viscosity—can exist, depend primarily on the physical viscosity, the actual magnitudes of these viscosities are independent, or are only connected in a secondary manner. This is shown by a very striking but little noticed fact. When the motion of the fluid is such that the resistance is as the square of the velocity, the magnitude of this resistance is sensibly quite independent of the character of the fluid in all respects except that of density. Thus, when in a particular pipe the velocity of oil or treacle is sufficient for the resistance to vary as the square of the velocity, the resistance is practically the same as it would be with water at the same velocity, while the physical viscosity of water is more than one hundred times less.

The answer, then, to the question as to the constancy of $\mu$ may be clearly given—$\mu$ measures a physical property of the fluid which is independent of its motion. But in this sense $\mu$ is the coefficient of instantaneous resistance to distortion at a point moving with the fluid.

This restriction is equivalent to restricting the applications of the equations of motion for a viscous fluid to the cases in which there are no

This, as shown by the author, is the case in parallel channels so long as the product of the velocity, the width of the channel, and the density of the fluid divided by $\mu$ is less than a certain constant value. In a round tube this constant is 1400, or

$$\frac{Dv\rho}{\mu} < 1400.$$

At a temperature of 50°, we have, with a foot as unit of length, for water—

$$\frac{\mu}{\rho} = 0{\cdot}00001428,$$

$$Dv < {\cdot}02,$$

so that if $D$, the diameter of the channel, be ·001 inch, $v$ would have to be at least 240 feet per second for the resistance to vary other than as the velocity.

As regards the slipping at the boundaries, Poiseuille's experiments, as well as those of the author, failed to show a trace of this, although $f$ reached the value of 0·702 lb. per square inch, so that within this limit it may be taken as proved that there is no slipping between any solid surface and water. With other fluids, such as mercury in glass tubes, it is possible that the case may be different; but, as regards oils, the probability seems to be that the limit within which there is no slipping will be much higher than with water.

## 12. *Experimental Determination of the Value of $\mu$ for Olive Oil.*

Since the value of $\mu$ for water is known for all moderate temperatures, in order to obtain the value for oil it is only necessary to ascertain the relative times taken by the same volumes of oil and water to flow through the same channel, care being taken to make the channel such that there are no eddies and that the energy of motion is small compared with the loss of head.

These times are proportional to

$$\frac{\mu}{p},$$

where $p$ is the fall of pressure; therefore the times multiplied by the respective falls of pressure are proportional to the viscosities.

The arrangement of apparatus used is shown in Fig. 2.

The test tube ($A$) containing the fluid to be tested was fixed in a beaker of water, which was heated from below and maintained at any required

A syphon (*B*), made of glass tube $\frac{3}{16}$ inch internal diameter, with the extremity of its short limb drawn down to capillary size for a length of about 6 inches, this six inches being bent up and down so as only to occupy

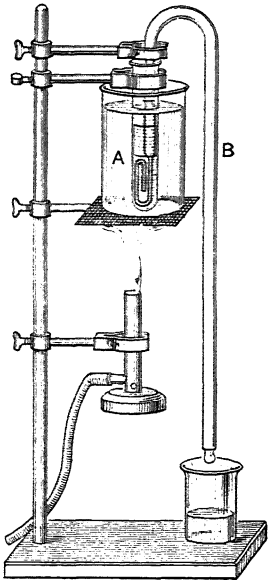



Fig. 2.

some 2 inches at the bottom of the test tube. The long limb of the syphon extended to about 2 feet below the mean level of the fluid in the test tube. Two marks on the test tube at different levels served to show when a definite volume had been withdrawn.

The syphon used was the same for each set of experiments on oil and water, so that the pressure urging the fluid through the tube was proportioned to the density of the fluids—that is, it was 1·915 as great for oil as water, disregarding the effect of the variation of temperature on volume, which in no case amounted to 1 per cent.

Experiments were first made with water at different temperatures, the times taken for the water to fall from the first mark to the second being carefully noted. The syphon was then dried and replaced and oil substituted for water.

Two sets of similar apparatus were used on different occasions, different samples of oil being used. In the first set the experiments on oil were made at temperatures from 95° to 200° Fahr.; in the second

viscosities for the two oils agreed to within 4 per cent., but as the law of variation of the viscosity seemed to change rapidly at about 140° Fahr., only the second set have been recorded. These are shown in Table I.

TABLE I.—VISCOSITY OF OIL COMPARED WITH WATER: 11 April, 1884.

| Number. | Third. | Temperature. | | Time seconds. | $\frac{\mu}{107}$ experimental. | log $\mu$ experimental. | log $\mu$ calculated. | $\frac{\mu}{107}$ calculated. |
|---|---|---|---|---|---|---|---|---|
| | | Fahrenheit. | Centigrade. | | | | | |
| 1 | Water. . | 60° | 15·5° | 25 | 1·640 | | | |
| 2 | ,, . . | ,, | ,, | ,, | ,, | | | |
| 3 | ,, . . | ,, | ,, | ,, | ,, | | | |
| 4 | Olive oil . | 61 | 16° | 2040 | 123·00 | $\bar{5}$·08990 | $\bar{5}$·090133 | 123·06 |
| 5 | ,, . | 81 | | 1350 | 81·00 | $\bar{6}$·90848 | $\bar{6}$·89807 | 79·08 |
| 6 | ,, . | 94 | | 1000 | 60·00 | $\bar{6}$·77815 | $\bar{6}$·78290 | 59·34 |
| 7 | ,, . | 120 | | 555 | 33·40 | $\bar{6}$·52375 | $\bar{6}$·52375 | 33·40 |

From Poiseuille's experiments it is found that, measuring viscosity in pounds on the square inch, for water at a temperature of 61° Fahr.,

$$\mu = 10^{-7} \times 1{\cdot}61.$$

Adopting this value of $\mu$ for the experiments on water at 61° Fahr., the other experimental values of $\mu$ for water at different temperatures, obtained as being in the ratios of the times, were found to be in very close agreement with those calculated from Poiseuille's law for the respective temperatures. This tested the efficiency of the apparatus. It has not been thought necessary to record any experiment on water except at the temperature of 61° Fahr.

The experimental value of $\mu$ for oil are in the ratios of the times multiplied by ·915, the specific gravity of oil; these are given as the experimental values of $\mu$ in the table. Another column contains the values of $\mu$ for oil, calculated from an empirical formula fitted to the experimental values.

This formula was found by comparing the logarithms of the experimental values of $\mu$. It appeared that the differences in these logarithms were nearly proportional to the differences in the corresponding temperatures, or that $T$ being temperature in degrees Fahr.,

$$\log \mu_1 - \log \mu_2 = {\cdot}0096\,(T_2 - T_1),$$

in degrees Centigrade

$$\log \mu_1 - \log \mu_2 = {\cdot}00535\,(T_2 - T_1);$$

whence since

$${\cdot}0096 = {\cdot}0021 \log_{10} e,$$

$${\cdot}00535 = {\cdot}0123 \log_{10} e.$$

for degrees Fahrenheit $\frac{\mu_1}{\mu_2} = e^{-\cdot 0221(T_1 - T_2)}$

for degrees Centigrade $\frac{\mu_1}{\mu_2} = e^{-\cdot 0123(T_1 - T_2)}$ } .....(2).

This ratio holds well within the experimental accuracy from temperatures ranging from 61° to 120° Fahr. This is shown in the table, and again in Fig. 3, in which the ordinates are proportional to $\log \mu$, the abscissæ being proportional to the corresponding temperatures.

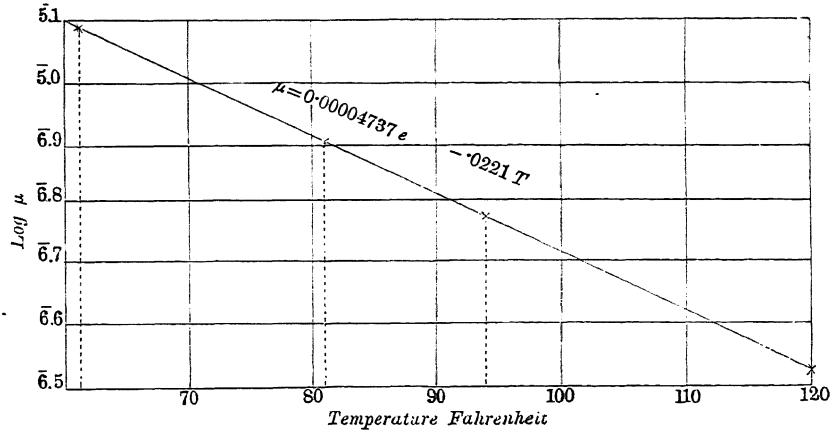



Fig. 3.

## 13. *The Comparative Values of $\mu$ for Different Fluids and Different Systems of Units.*

The values of $\mu$ given by different writers for air and water, are expressed in various units of force and length, so that it is a matter of some trouble to compare them. To facilitate this for the future comparative values are here given. Those for water have been deduced from Poiseuille's formula, for air from Maxwell's formulæ, and for olive oil from the experiments recorded in the previous article.

The units of length, mass, and time, being respectively the centimetre, gramme, and second, in which case the unit of force is the weight of one 980·5th ($g$) part of a gramme, expressing temperature in degrees Centigrade by $T$ and putting

$$P = 1 + 0{\cdot}0336703T + 0{\cdot}0002209936T^2 \qquad (3)$$

for

$$\left.\begin{array}{ll} \text{water} & \mu = 0{\cdot}0177931P \\ \text{air} & \mu = 0{\cdot}0001879\,(1 + 0{\cdot}00366T) \\ \text{olive oil} & \mu = 3{\cdot}2653e^{-{\cdot}0123T}\,* \end{array}\right\} \quad \ldots\ldots\ldots\ldots (4).$$

With the same unit of length, but $g$ grammes as unit of mass and 1 gramme as unit of force, the values of $\mu$ are for

$$\left.\begin{array}{ll} \text{water} & \mu = 0{\cdot}0000181P \\ \text{air} & \mu = 0{\cdot}00000019153\,(1 + {\cdot}00366T) \\ \text{olive oil} & \mu = 0{\cdot}0033303e^{-{\cdot}0123T} \end{array}\right\} \quad \ldots\ldots\ldots\ldots (5).$$

The units of length and mass being the foot and pound and the temperature in degrees Fahr. for

$$\left.\begin{array}{ll} \text{water} & \mu = 0{\cdot}0011971P \\ \text{air} & \mu = 0{\cdot}000011788\,(1 + {\cdot}0020274T) \\ \text{olive oil} & \mu = 0{\cdot}21943e^{-{\cdot}0221T} \end{array}\right\} \quad \ldots\ldots\ldots\ldots (6).$$

With the same unit of length the unit of mass being $g$ (32·1695) lbs. and the unit of force 1 lb. for

$$\left.\begin{array}{ll} \text{water} & \mu = 0{\cdot}000037166P \\ \text{air} & \mu = 0{\cdot}00000036645\,(1 + {\cdot}002074T) \\ \text{olive oil} & \mu = 0{\cdot}0068213e^{-{\cdot}0221T} \end{array}\right\} \quad \ldots\ldots\ldots\ldots (7).$$

Taking the unit of length 1 inch and the unit of force 1 lb. for

$$\left.\begin{array}{ll} \text{water} & \mu = 0{\cdot}000000258105P \\ \text{air} & \mu = 0{\cdot}0000000025447\,(1 + {\cdot}0020274T) \\ \text{olive oil} & \mu = 0{\cdot}00004737e^{-{\cdot}0221T} \end{array}\right\} \quad \ldots\ldots\ldots\ldots (8).$$

## Section III.—General View of the Action of Lubrication.

### 14. *The case of two nearly Parallel Surfaces separated by a Viscous Fluid.*

Let $AB$ and $CD$ (Fig. 4) be perpendicular sections of the surfaces, $CD$ being of limited but of great extent compared with the distance $h$

* For olive oil the values of $\mu$ have only been tested between the limits of temperature 16° and 49° C. or 61° and 120° Fahr.

between the surfaces, both surfaces being of unlimited length in a direction perpendicular to the paper.

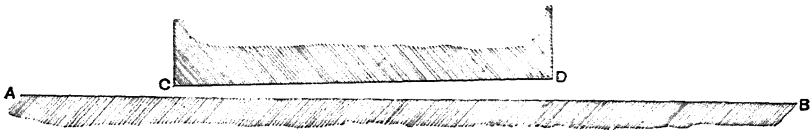



Fig. 4.

Case 1. *Parallel Surfaces in Relative Tangential Motion.*—In Fig. 5 the surface $CD$ is supposed fixed, while $AB$ moves to the left with a velocity $U$.

Then by the definition of viscosity (Art. 9) there will be a tangential resistance

$$F = \mu \frac{U}{h},$$

and the tangential motion of the fluid will vary uniformly from $U$ at $AB$ to zero at $CD$. Thus if $FG$ (Fig. 5) be taken to represent $U$, then $PN$ will represent the velocity in the fluid at $P$.

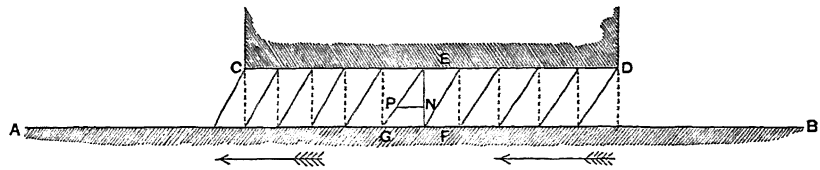



Fig. 5.

The slope of the line $EG$ therefore may be taken to represent the force $F$, and the direction of the tangential force on either surface is the same as if $EG$ were in tension. The sloping lines therefore represent the condition of motion and stress throughout the film (Fig. 5).

Case 2. *Parallel Surfaces approaching with no Tangential Motion.*—The fluid has to be squeezed out between the surfaces, and since there is no motion at the surface, the horizontal velocity outward will be greatest half-way between the surfaces, nothing at $O$ the middle of $CD$, and greatest at the ends.

If in a certain state of the motion (shown by dotted line, Fig. 6) the space between $AB$ and $CD$ be divided into 10 equal parts by vertical lines (Fig. 6 dotted figure) and these lines be supposed to move with the fluid

they will shortly after assume the positions of the curved lines (Fig. 6), in which the areas included between each pair of curved lines is the same as

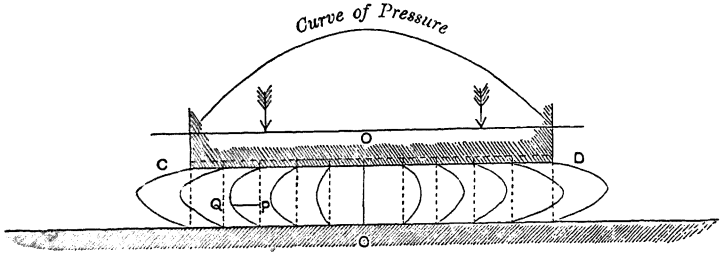



Fig. 6.

in the dotted figure. In this case, as in Case 1, the distance $QP$ will represent the motion at any point $P$, and the slope of the lines will represent the tangential forces in the fluid as if the lines were stretched elastic strings. It is at once seen from this that the fluid will be pulled towards the middle of $CD$ by the viscosity as though by the stretched elastic lines, and hence that the pressure will be greatest at $O$ and fall off towards the ends $C$ and $D$, and would be approximately represented by the curve at the top of the figure.

Case 3. *Parallel Surfaces approaching with Tangential Motion.*—The lines representing the motions in Cases 1 and 2 may be superimposed by adding the distances $PQ$ in Fig. 6 to the distances $PN$ in Fig. 5.

The result will be as shown in Fig. 7, in which the lines represent in the same way as before the motions and stresses in the fluid where the surfaces are approaching with tangential motion.

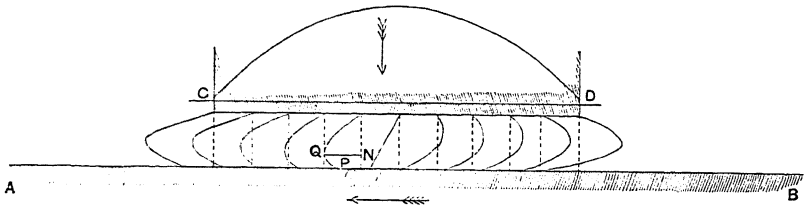



Fig. 7.

In this case the distribution of pressure over $CD$ is nearly the same as in Case 2, and the mean tangential force will be the same as in Case 1. The distribution of the friction over $CD$ will, however, be different. This is shown by the inclination of the curves at the points where they meet the surface. Thus on $CD$ the slope is greater on the left and less on the

right, which shows that the friction will be greater on the left and less on the right than in Case 1. On $AB$ the slope is greater on the right and less on the left, as is also the friction.

Case 4. *Surfaces inclined with Tangential Movement only.*—$AB$ is in motion as in Case 1, and $CD$ is inclined as in Fig. 8.

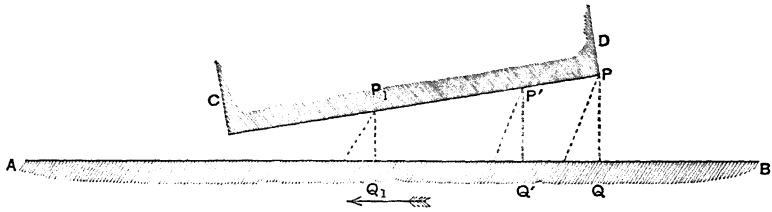



Fig. 8.

The effect in this case will be nearly the same as in the compound movement (Case 3).

For if corresponding to the uniform movement $U$ of $AB$, the velocity of the fluid varied uniformly from the surface $AB$ to $CD$, then the quantity carried across any section $PQ$ would be

$$PQ \times \frac{U}{2},$$

and consequently would be proportional to $PQ$; but the quantities carried across all sections must be the same, as the surfaces do not change their relative distances; therefore there must be a general outflow from any vertical sections $PQ$, $P'Q'$ given by

$$\frac{U}{2}(PQ - P'Q').$$

This outflow will take place to the right and left of the section of greatest pressure. Let this be $P_1Q_1$, then the flow past any other section $PQ$ is

$$\frac{U}{2}(PQ - P_1Q_1)$$

to the right or left according as $PQ$ is to the right or left of $P_1Q_1$. Hence at this section the motion will be one of uniform variation, and to the right and left the lines showing the motion and friction will be nearly as in Fig. 7. This is shown in Fig. 9.

This is the explanation of continuous lubrication.

The pressure of the intervening film of fluid would cause a force tending

The mean line or resultant of this force would act through some point $O$.

This point $O$ does not necessarily coincide with $P_1$, the point of maximum pressure.

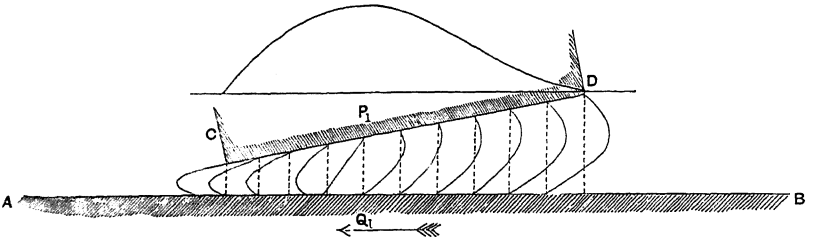



Fig. 9.

For equilibrium of the surface $AB$, $O$ will be in the line of the resultant external force urging the surfaces together, otherwise the surface $ACD$ would change its inclination.

The resultant pressure must also be equal to the resultant external force perpendicular to $AB$ (neglecting the obliquity of $CD$). If the surfaces were free to approach the pressure would adjust itself to the load, for the nearer the surfaces the greater would be the friction and consequent pressure for the same velocity, so that the surfaces would approach until the pressure balanced the load.

As the distance between the surfaces diminished $O$ would change its position, and therefore, to prevent an alteration of inclination, the surface $CD$ must be constrained so that it could not turn round.

It is to be noticed that continuous lubrication between plane surfaces can only take place with continuous motion in one direction, which is the direction of continuous inclination of the surfaces.

With reciprocating motion, in order that there may be continuous lubrication, the surfaces must be other than plane.

### 15. *Revolving Cylindrical Surface.*

When the moving surface $AB$ is cylindrical and revolving about its axis, the general motion of the film will differ somewhat from what it is with flat surfaces.

Case 5. *Revolving Motion, CD flat and symmetrically placed.*—The surface velocity of $AB$ may be expressed by $U$ as before. The curves of motion found by the same method as in the previous cases are shown in

The curves to the right of $GH$, the shortest distance between the surfaces, will have the same character as those in Fig. 9 to the right of $C$, at which is also the shortest distance between the surfaces.

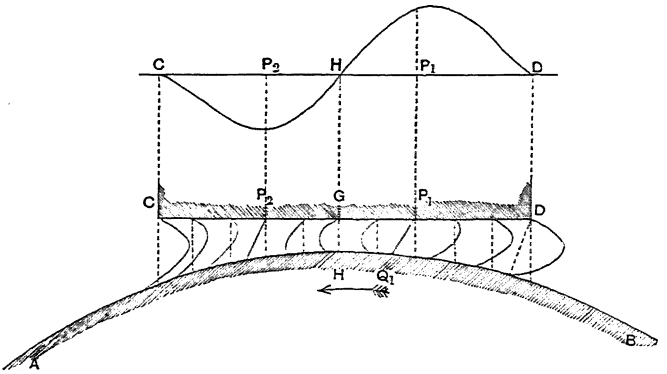



Fig. 10.

On the left of $GH$ the curves will be exactly similar to those on the right, only drawn the other way about, so that they are concave towards a section at $P_2$ in a similar position on the left to that occupied by $P_1$ on the right.

This is because a uniformly varying motion would carry a quantity of fluid proportional to the thickness of the stratum from right to left, and thus while it would carry more fluid through the sections towards the right than it would carry across $GH$, necessitating an outward flow from the position $P_1$ in both directions, the same motion would carry more fluid away from sections towards $C$ than it would supply past $GH$, thus necessitating an inward flow towards the position $P_2$.

Since $G$ is in the middle of $CD$ these two actions, though opposite, will be otherwise symmetrical, and

$$P_2G = GP_1.$$

From the convexity of the curves to the section at $P_2$ it appears that this section would be one of minimum pressure, just as $P_1$ is of maximum. Of course this is supposing the lubricant under sufficient pressure at $C$ and $D$ to allow of the pressure falling. The curve of pressure would be similar to that at the top of Fig. 10, in which $C$ and $D$ are points of equal pressure, $P_1HP_2$ the singular points in the curve.

Under such conditions the fluid pressure acts to separate the surfaces on

drawn together. So that the total effect will be to produce a turning moment on the surface $AB$.

Case 6. *The same as Case* 5, *except that G is not in the middle of CD.*—In this case the curves of motion will be symmetrical on each side of $H$ at equal distances, as shown in Fig. 11.

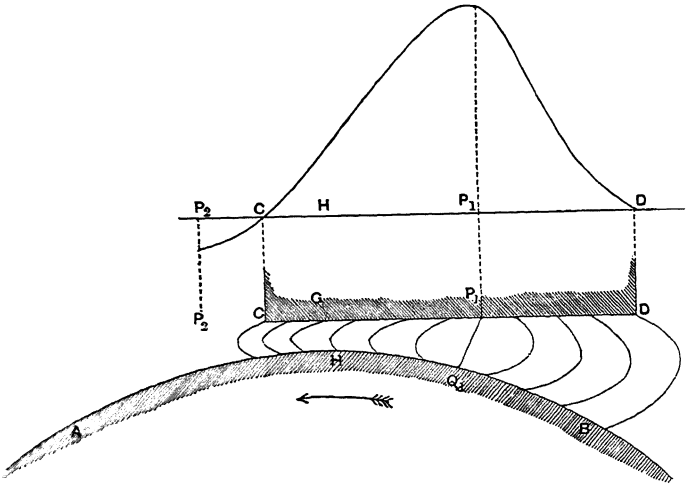



Fig. 11.

If $C$ lies between $H$ and $P_2$ the pressure will be altogether positive, as shown by the curve above Fig. 11—that is, will tend to separate the surfaces.

## 16. *The Effect of a Limiting Supply of Lubricating Material.*

In the cases already considered $C$ and $D$ have been the actual limits of the upper surface. If the supply of lubricant is limited $C$ and $D$ may be the extreme points to which the separating film reaches on the upper surface, which may be unlimited, as in Fig. 12.

Case 7. *Supply of Lubricant Limited.*—If the surface $AB$ be supposed to have been covered with a film of oil, the oil adhering to the surface and moving with it, then the surface $CD$ to have been brought up to a less distance than that occupied by the film of oil, the oil will accumulate as it is brought up by the motion of $AB$, forming a pad between the surfaces, particularly on the side $D$.

The thickness of the film as it leaves the side $C$ being reduced until the whole surface $AB$ is covered with a film of such thinness that as much leaves at $C$ as is brought up to $D$, then the condition will be steady.

Putting $b$ for the thickness of the film of oil outside the pad, the quantity of oil brought up to $D$ by the motion of this film will be per second

$$bU,$$

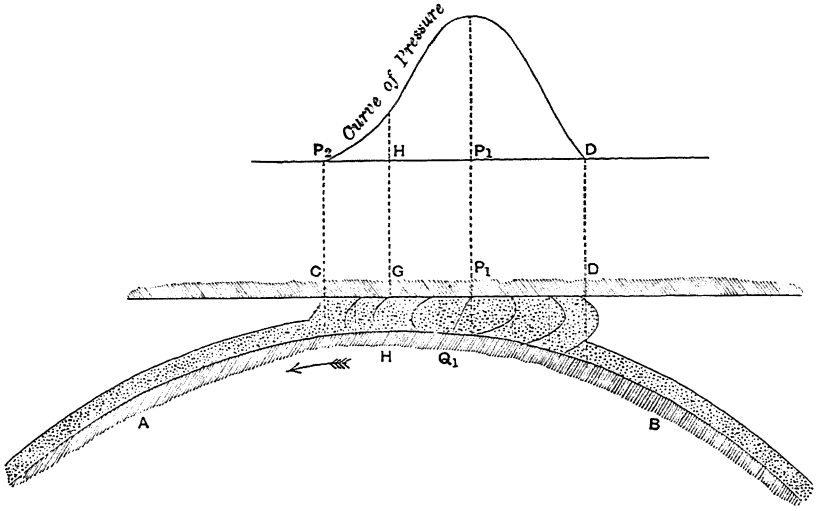



Fig. 12.

and the quantity which passes the section $P_1Q_1$, across which the velocity varies uniformly, will be

$$\frac{P_1Q_1U}{2}.$$

Therefore since there is no further accumulation

$$P_1Q_1 = 2b,$$

also, since $GP_2 = GP_1$ (Fig. 10, Case 5)

$$P_2Q_2 = 2b.$$

And since the quantity which passes $P_2Q_2$ will not be sufficient to occupy the larger sections on the left, the fluid will not touch the upper surface to the left of $P_2$. The limit will therefore be at $P_2$, the fluid passing away with $AB$ in a film of thickness $b$.

This is the ordinary case of partial lubrication: $AB$, the surface of the journal, is covered with a film of oil; $CD$, the surface of the brass or bearing, is separated from $AB$ by a pad of oil near $H$, the point of nearest approach.

This pad is under pressure, which is a maximum at $P_1$, and slopes away to nothing at $D$ and $P_2$, the extremities of the pad, as is shown by the curve

## 17. *The Relation between Resistance, Load, and Speed for Limited Lubrication.*

In Case 7 a definite quantity of oil must be in the film round the journal, or in the pad between the surfaces. As the surfaces approach, the pad will increase and the film diminish, and *vice versâ*. The resistance increases with the length of the pad, and with the diminution of the distance between the surfaces. The mean intensity of pressure increases with the length of the pad, and inversely with the thickness of the film, but not in either case in the simple ratio. The total pressure, which is equal to the load, increases with the intensity of pressure and the length of the pad.

The definite expressions of these relations depend on certain integrations, which have not yet been effected. From the general relations pointed out, it follows that an increase of load will diminish $HG$ and $P_1Q_1$, and consequently the thickness of the film round the journal, and will increase the length of the pad. It will therefore increase the friction.

Thus with a limited supply of oil the friction will increase with the load in some ratio not precisely determined.

Further, both the friction and the pressure increase in the direct ratio of the speed, provided the distance between the surfaces and the length of the pad remains constant; then, if the load remains constant, the thickness of the film must increase, and the length of the pad diminish with the speed; and both these effects will diminish friction in exactly the same ratio as the reduction of load diminishes friction.

Thus if with a speed $U$ a load $W$ and friction $F$ a certain thickness of oil is maintained, the same will be maintained with a speed $MU$, a load $MW$, and the friction will be $MF$.

How far this increase of friction is to be attributed to the increased velocity, and how far to the increased load, is not yet shown in the theory for this case; but, as has been pointed out, if the load be altered from $MW$ to $W$, the velocity remaining the same, the friction will be altered from $MF$ in the direction of $F$. Therefore, with the load constant, it does appear from the theory that the friction will not increase as the first power of the velocity.

There is nothing therefore in this theory contrary to the experience that, with very limited lubrication, the friction is proportional to the load and independent of the velocity, while the theoretical conclusion that the friction, with any particular load and speed, will depend on the supply of oil in the pad, is in strict accordance with Mr Tower's conclusion, and with the general disagreement of the coefficients of friction in different experiments.

### 17 A. *The Conditions of Equilibrium with Cylindrical Surfaces.*

So far $CB$ has been considered as a flat surface, in which case the equilibrium of $CB$ requires that it should be so far constrained by external forces that it cannot either change its direction or move horizontally.

When $AB$ is a portion of a cylindrical surface, having its axis parallel to that of $AB$, the only condition of constraint necessary for equilibrium is that $CB$ shall not turn about its axis. This will appear on consideration of the following cases:—

Case 8. *Surfaces Cylindrical and the Supply of Oil Limited.*—Fig. 13 shows the surfaces $AB$ and $CD$.

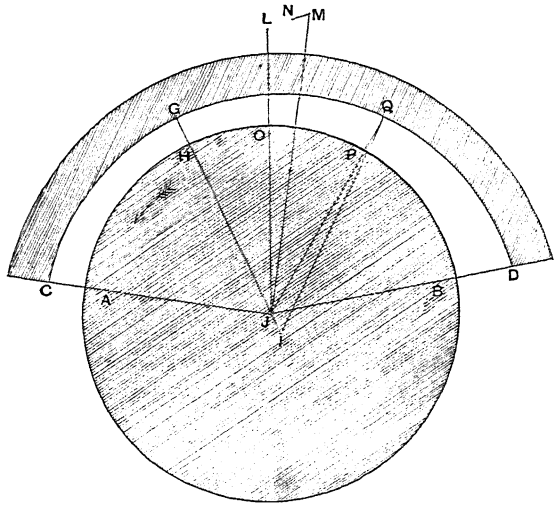



Fig. 13.

$J$ is the axis of the journal $AB$.

$I$ is the axis of the brass $CD$.

$JL$ is the line in which the load acts.

$O$ is the point in which $JL$ meets $AB$.

$R = JP$.

$R + a = IQ$.

$h = PQ$.

$h_0 = HG$.

The condition for the equilibrium of $I$ the centre of the brass is that the resultant of the oil pressure on $DC$ together with friction shall be in the

As regards the magnitude of this resultant, it increases as $HG$ diminishes to a certain limit, *i.e.*, as the surfaces approach, so that in this respect equilibrium is obviously secured, and it is only the direction of the resultant pressure and friction that need be considered.

Since the fluid film is in equilibrium under the forces exerted by the two opposite surfaces, these forces must be equal and opposite, so that it is only necessary to consider the forces exerted by $AB$ on the fluid.

From what has been already seen in Cases 6 and 7 it appears that the resultant line of pressure $JM$ always lies on the right or *on* side of $GH$. The resultant friction clearly acts to the left, so that if $JM$ be taken to represent the resultant pressure and $MN$ the resultant friction, $N$ is to the left of $M$ and $JN$ the resultant of pressure and friction is to the left of $JM$.

Taking $LJ$ to represent the load, then $LN$ will represent the resultant moving force on $CD$ that is on $I$. Since $H$ will move in the opposite direction to $I$, and since the direction of the resultant pressure moves in the same direction as $H$, the effect of a moving force $LN$ on $I$ will be to move $N$ towards $L$ until they coincide. Thus, as long as $JM$ is within the arc covered by the brass, a position of equilibrium is possible and the equilibrium will be stable.

So far the condition of equilibrium shows that $H$ will be on the left or off side of the line of load, and this holds whether the supply of oil is abundant or limited; but while with a very limited supply of oil, *i.e.*, a very short oil pad, $H$ must always be in the immediate neighbourhood of $O$, this is by no means the case as the length of the oil pad increases.

Case 9. *Cylindrical Surfaces in Oil Bath.*—If the supply of oil is sufficient, the oil film or pad between the surfaces will extend continuously from the extremities of the brass, unless such extension would cause negative pressure which might lead to discontinuity. In this case the conditions of equilibrium determine the position of $H$.

The conditions of equilibrium are as before—

1. That the horizontal component of the oil pressure on the brass shall balance the horizontal component of the friction;

2. That the vertical components of the pressure and friction shall balance the load.

Taking the surface of the brass, as is usual, to embrace nearly half the circumference of the journal and, to commence with, supposing the brass to be unloaded, the movement of $H$ may be traced as the load increases.

When there is no load, the conditions of equilibrium are satisfied if the

position of $H$ is such, that the vertical components of pressure and friction are each zero, and the horizontal components are equal and opposite.

This will be when $H$ is at $O$ (Fig. 13); for then, as has been shown, Case 5, the pressure on the left of $H$ will be negative, and will be exactly equal to the pressure at corresponding points on the right, so that the vertical components left and right balance each other. On the other hand the horizontal component of the pressure to the left and right will both act on the brass to the right, and as these will increase as the surfaces approach, the distance $JI$ must be exactly such that these components balance the resultant friction, which by symmetry will be horizontal and acting to the left.

It thus appears that when the brass is unloaded its point of nearest approach will be its middle point. This position, together with the curves of pressure, are shown in Fig. 14.

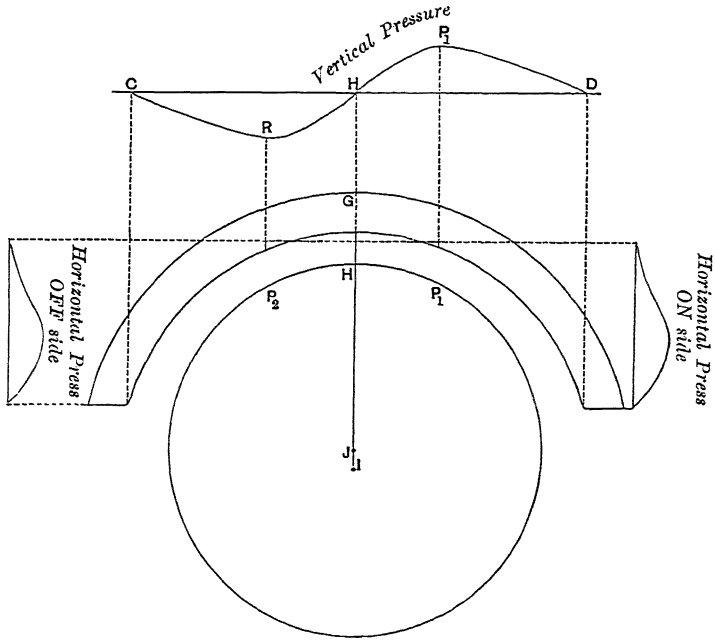



Fig. 14.

As the load increases, the positive vertical component on the right of $GH$ must overbalance the negative component on the left. This requires that $H$ should be to the left of $O$.

It is also necessary that the horizontal components of pressure and

These two conditions determine the position of $H$ and the value of $JI$.

As the load increases it appears from the exact equations (to be discussed in a subsequent article) that $OH$ reaches a maximum value, which places $H$ nearly, but not quite, at the left extremity of the brass, but leaves $JI$ still small as compared with $GH$.

For a further increase of the load $H$ moves back again towards $O$.

In this condition the load has become so great that the friction, which remains nearly constant, is so small by comparison that it may be neglected, and the condition of equilibrium is that the horizontal component of the pressure is zero, and the vertical component equal to the load.

$H$ continues to recede as the load increases. But when $HC$ becomes greater than $HP_2$, the pressure between $P_2$ and $C$ would become negative if the condition did not break down by discontinuity in the oil, which is sure to occur when the pressure falls below that of zero, and then the condition becomes the same as that with a limited supply of oil.

This is important, as it shows that with extreme loads the oil bath comes to be practically the same as that of a limited supply of oil, and hence that the extreme load which the brass would carry would be the same in both cases—as Mr Tower has shown it to be.

In all Mr Tower's experiments with the oil bath it appears that the conditions were such that as the load increased $H$ was in retreat from $C$ towards $O$, and that, except in the extreme cases, $P_2$ had not come up to $C$.

Figs. 2, 3, 4, show the exact curves of pressure as calculated by the exact method to be given, for circumstances corresponding very closely with one of Mr Tower's experiments, in which he actually measured the pressure of oil at three points in the film. These measured pressures are shown by the crosses.

The result of the calculations for this experiment is to show, what could not indeed be measured, that in Mr Tower's experiment the difference in the radii of the brass and journal at 70°, and a load of 100 lbs. per square inch was:

$$a = \cdot 00077$$

$$GH = \cdot 000375$$

(The angle) $OJH = 48°$.

## 18. *The Wear and Heating of Bearings.*

Before the journal starts the effect of the load will have brought the brass into contact with the journal at $O$. At starting the surfaces will be in

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**CENTRALLY ACTING MUSCLE RELAXANTS** see **MUSCLE RELAXANTS, CENTRAL**

**CENTRIC RELATION** see **DENTAL OCCLUSION, CENTRIC**

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**CENTROPHENOXINE** see under **GLYCOLATES**

**CENURIASIS** see **CESTODE INFECTIONS**

**CEPHACETRILE** see under **CEPHALOSPORINS**

**CEPHAELIS** see **IPECAC**

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**CHOLESTASIS, EXTRAHEPATIC** see **BILE DUCT OBSTRUCTION, EXTRAHEPATIC**

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**CHOLESTEROL HDL** see **LIPOPROTEINS, HDL CHOLESTEROL**

**CHOLESTEROL-7-HYDROXYLASE** see under **STEROID HYDROXYLASES**

**CHOLESTEROL INHIBITORS** see **ANTICHOLESTEREMIC AGENTS**

**CHOLESTEROL LDL** see **LIPOPROTEINS, LDL CHOLESTEROL**

**CHOLESTEROL OXIDASE** see under **3-HYDROXYSTEROID DEHYDROGENASES**

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**CHOLINE ACETYLASE** see **CHOLINE ACETYLTRANSFERASE**

## CHOLINE ACETYLTRANSFERASE

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### PATHOLOGY

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**CHOLINE KINASE** see under **PHOSPHOTRANSFERASES, ATP**

**CHOLINE PHOSPHOGLYCERIDES** see **PHOSPHATIDYLCHOLINES**

**CHOLINEPHOSPHOTRANSFERASE** see under **PHOSPHOTRANSFERASES**

**CHOLINERGIC AGENTS** see **PARASYMPATHOMIMETICS**

**CHOLINERGIC-BLOCKING AGENTS** see **PARASYMPATHOLYTICS**

**CHOLINERGIC RECEPTORS** see **RECEPTORS, CHOLINERGIC**

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see related
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### ANALYSIS

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**CHOLINOCEPTIVE SITES** see **RECEPTORS, CHOLINERGIC**

**CHOLINOCEPTORS** see **RECEPTORS, CHOLINERGIC**

**CHOLINOLYTICS** see **PARASYMPATHOLYTICS**

**CHOLINOMIMETICS** see **PARASYMPATHOMIMETICS**

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## CHONDROBLASTOMA

### RADIOGRAPHY

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### ETIOLOGY

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**CHONDROITIN SULFATES** see under **CHONDROITIN**

## CHONDROMA

### DIAGNOSIS

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### RADIOGRAPHY

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### ANALYSIS

Immunoreactive fibroblast growth factor (FGF) in a transplantable chondrosarcoma: inhibition of tumor growth by antibodies to FGF. Baird A, et al. **J Cell Biochem** 1986; 30(1):79-85

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### RADIOGRAPHY

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**CHONDRO-4-SULFATASE** see under **SULFATASES**

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## CHORDATA

### IMMUNOLOGY

Retinal S-antigen: immunocytochemical and immunochemical studies on distribution in animal photoreceptors and pineal organs. van Veen T, et al. **Exp Biol** 1986;45(1):15-25

### METABOLISM

CCK-like peptides in the neural complex of a protochordate. Pestarino M. **Peptides** 1985;6 Suppl 3:389-92

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### PATHOLOGY

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## CHROMATOGRAPHY, HIGH PRESSURE LIQUID

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**CISTRON** see **GENES, STRUCTURAL**

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**CLEFT PALATE PROSTHESIS** see **PALATAL OBTURATORS**

**CLEMASTINE** see under **PYRROLIDINES**

**CLEMIZOLE** see under **BENZIMIDAZOLES**

**CLENBUTEROL** see under **ETHANOLAMINES**

**CLERAMBAULT SYNDROME** see **ORGANIC MENTAL DISORDERS, PSYCHOTIC**

**CLETHRIONOMYS** see **CRICETIDAE**

**CLIDANAC** see under **INDENES**

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**CLOPIDOL** see under **PYRIDINES**

**CLOPROSTENOL** see under **PROSTAGLANDINS F, SYNTHETIC**

**CLORANFENICOL** see **CHLORAMPHENICOL**

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**CLOVE** see **CONDIMENTS**

**CLOZAPINE** see under **DIBENZAZEPINES**

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**CME-CARBODIIMIDE** see under **CARBODIIMIDES**

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**COCHLEAR DUCT** see under **COCHLEA**

**COCHLEAR IMPLANT** see **AUDITORY PROSTHESIS**

**COCHLEAR MICROPHONIC POTENTIALS** see under **EVOKED POTENTIALS, AUDITORY**

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**COENURIASIS** see **CESTODE INFECTIONS**

**COENZYME I** see **NAD**

**COENZYME II** see **NADP**

## COENZYME A

### METABOLISM

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## COENZYME A SYNTHETASES

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## COFFEE

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**CORE PROTEINS, VIRAL** see **VIRAL CORE PROTEINS**

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CORTICAL SYNCHRONIZATION see under ELECTROENCEPHALOGRAPHY

CORTICOIDS see ADRENAL CORTEX HORMONES

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## CORTICOSTERONE

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## CORTICOTROPIN RELEASING HORMONE

ADMINISTRATION & DOSAGE

Pulsatile administration of human corticotropin-releasing hormone in patients with secondary adrenal insufficiency: restoration of the normal cortisol secretory pattern. Avgerinos PC, et al. **J Clin Endocrinol Metab** 1986 May; 62(5):816-21

Corticotropin-releasing hormone (CRH) stimulation in Nelson's syndrome: response of adrenocorticotropin secretion to pulse injection and continuous infusion of CRH. Oldfield EH, et al. **J Clin Endocrinol Metab** 1986 May;62(5):1020-6

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ACTH response to CRF in ACTH deficient patients [letter] Burke CW. **Clin Endocrinol (Oxf)** 1985 Dec;23(6):722-4

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By 95 days of gestation CRF increases plasma ACTH and cortisol in ovine fetuses. Hargrave BY, et al.
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**CORTINARIUS** see under **AGARICALES**

**CORTISOL** see **HYDROCORTISONE**

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3',5'-CYCLIC AMP 5'-NUCLEOTIDOHYDROLASE see 3',5'-CYCLIC AMP PHOSPHODIESTERASE

## 3',5'-CYCLIC AMP PHOSPHODIESTERASE

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## 3',5'-CYCLIC GMP PHOSPHODIESTERASE

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CYCLOBARBITAL see under BARBITURATES

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**CYCLOPENTOLATE** see under **PHENYLACETATES**

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**CYCLOSPORIN A** see **CYCLOSPORINS**

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Late rejection in patients receiving cyclosporine. Johnson HK. **Transplant Proc** 1986 Apr;18(2 Suppl 1):197-203
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**CYCLOTHYMIC DISORDER** see under **AFFECTIVE DISORDERS**

**CYCLOTRONS** see **PARTICLE ACCELERATORS**

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### PATHOLOGY

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**CYNARIN** see under **CINNAMATES**

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The effects of toxicants on the haematology of Labeo umbratus (Teleostei: Cyprinidae). van Vuren JH. **Comp Biochem Physiol [C]** 1986;83(1):155-9
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### ANALOGS & DERIVATIVES

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[Malignant tumors of the ovary. Apropos of 8 cases] Zayani H, et al. **Tunis Med** 1985 Oct;63(10):515-9 (Eng. Abstr.) **(Fre)**

### ANALYSIS

Cystadenoma and cystadenocarcinoma of the liver: localization of carcinoembryonic antigen. Tomioka T, et al. **Jpn J Surg** 1986 Jan;16(1):62-7

### COMPLICATIONS

Pseudomyxoma peritonei and malignant mucocele of the appendix. A case report. Rammou-Kinia R, et al. **Acta Cytol (Baltimore)** 1986 Mar-Apr;30(2):169-72

### FAMILIAL & GENETIC

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Ovarian tumor antigens: preliminary histological investigation. Daunter B, et al. **Gynecol Oncol** 1986 Mar; 23(3):364-70
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Nuclear deoxyribonucleic acid heterogeneity of ovarian borderline malignant serous tumors. Fu YS, et al. **Obstet Gynecol** 1986 Apr;67(4):478-82
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### SURGERY

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## CYSTADENOMA

### ANALYSIS

Cystadenoma and cystadenocarcinoma of the liver: localization of carcinoembryonic antigen. Tomioka T, et al. **Jpn J Surg** 1986 Jan;16(1):62-7

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### IMMUNOLOGY

Biochemical and immunohistochemical studies on carcinoembryonic antigen of ovarian mucinous and serous tumors. Tohya T, et al. **Gynecol Oncol** 1986 Mar; 23(3):291-303

### PATHOLOGY

[Differential cytologic diagnosis of serous and mucinous ovarian tumors] Agamova KA, et al. **Lab Delo** 1986; (2):77-9 (Eng. Abstr.) **(Rus)**

**CYSTADENOMA LYMPHOMATOSUM, PAPILLARY** see **ADENOLYMPHOMA**

**CYSTAPHOS** see under **ORGANOTHIOPHOSPHORUS COMPOUNDS**

**CYSTATHIONINE BETA-SYNTHASE** see under **HYDRO-LYASES**

**CYSTATHIONINE GAMMA-LYASE** see under **LYASES**

## CYSTEAMINE

### PHARMACODYNAMICS

Effect of radiomodifying agents on the ratios of X-ray-induced lesions in cellular DNA: use in lethal lesion determination. Radford IR. **Int J Radiat Biol** 1986 Apr; 49(4):621-37

**CYSTEIC ACID** see under **AMINO ACIDS, SULFUR**

**CYSTEINAMINE** see **CYSTEAMINE**

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**CYTIDINE DIPHOSPHATE CHOLINE** see under **CHOLINE**

**CYTIDINE DIPHOSPHATE DIGLYCERIDES** see under **NUCLEOSIDE DIPHOSPHATE SUGARS**

**CYTIDINE MONOPHOSPHATE** see under **CYTOSINE NUCLEOTIDES**

**CYTIDINE MONOPHOSPHATE N-ACETYLNEURAMINIC ACID** see under **SIALIC ACIDS**

**CYTIDINE PHOSPHATES** see **CYTOSINE NUCLEOTIDES**

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**CYTOTOXIC T LYMPHOCYTES** see **T LYMPHOCYTES, CYTOTOXIC**

**CYTOTOXICITY, ANTIBODY-DEPENDENT CELL** see **ANTIBODY-DEPENDENT CELL CYTOTOXICITY**

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**DANITRACEN** see under **PIPERIDINES**

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**DEAE-DEXTRAN** see under **DEXTRANS**

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**DEPENDENCY (PSYCHOLOGY)** see under **PERSONALITY**

**DEPENDENT PERSONALITY DISORDER** see under **PERSONALITY DISORDERS**

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**DEPRESSION, BIPOLAR** see **BIPOLAR DISORDER**

**DEPRESSION, ENDOGENOUS** see **DEPRESSIVE DISORDER**

## DEPRESSION, INVOLUTIONAL

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**DEPRESSION, REACTIVE** see **ADJUSTMENT DISORDERS**

**DEPRESSION, REACTIVE, PSYCHOTIC** see **AFFECTIVE DISORDERS, PSYCHOTIC**

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**DERMACENTOR** see under **TICKS**

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## DERMATITIS

### DRUG THERAPY

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**DERMATITIS, CONTACT, PHOTOSENSITIVE** see **PHOTOSENSITIVITY DISORDERS**

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**DERMATITIS, PHOTOCONTACT** see **PHOTOSENSITIVITY DISORDERS**

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## DERMATOLOGY

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DEXTROSE see GLUCOSE

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**DIABETES MELLITUS, ADULT ONSET** see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

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**DIABETES MELLITUS, JUVENILE ONSET** see **DIABETES MELLITUS, INSULIN-DEPENDENT**

**DIABETES MELLITUS, KETOSIS PRONE** see **DIABETES MELLITUS, INSULIN-DEPENDENT**

**DIABETES MELLITUS, KETOSIS RESISTANT** see **DIABETES MELLITUS, NON-INSULIN-DEPENDENT**

## DIABETES MELLITUS, NON-INSULIN-DEPENDENT

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**DIHYDRO-BETA-ERYTHROIDINE** see under **ALKALOIDS**

**DIHYDROCHOLESTEROL** see under **CHOLESTEROL**

**DIHYDROERGOCORNINE** see under **DIHYDROERGOTOXINE**

**DIHYDROERGOCRISTINE** see under **DIHYDROERGOTOXINE**

**DIHYDROERGOCRYPTINE** see under **DIHYDROERGOTOXINE**

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**DIHYDROPROGESTERONE** see under **PROGESTERONE**

**DIHYDROPTERIDINE REDUCTASE** see under **NADH, NADPH OXIDOREDUCTASES**

**DIHYDROPTEROATE SYNTHASE** see under **TRANSFERASES**

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**M-DIHYDROXYBENZENES** see **RESORCINOLS**

**O-DIHYDROXYBENZENES** see **CATECHOLS**

**P-DIHYDROXYBENZENES** see **HYDROQUINONES**

**1 ALPHA,25-DIHYDROXYCHOLECALCIFEROL** see **CALCITRIOL**

**1,25-DIHYDROXYCHOLECALCIFEROL** see **CALCITRIOL**

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**DIHYDROXYPHENYLALANINE** see **DOPA**

**3,4-DIHYDROXYPHENYLSERINE** see under **SERINE**

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**DIHYDROXYVITAMINS D** see **DIHYDROXYCHOLECALCIFEROLS**

**DIIODOHYDROXYQUIN** see under **HYDROXYQUINOLINES**

**DIIODOTHYRONINES** see under **THYRONINES**

**DIISOPROPYLFLUOROPHOSPHATE** see **ISOFLUROPHATE**

**2,3-DIKETOGULONIC ACID** see under **SUGAR ACIDS**

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**DILTIAZEM** see under **BENZAZEPINES**

**DILUTION TECHNICS** see **INDICATOR DILUTION TECHNICS**

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**DIMETHOXYPHENYLETHYLAMINE** see under **PHENETHYLAMINES**

**DIMETHYL ADIPIMIDATE** see under **IMIDOESTERS**

**DIMETHYL SUBERIMIDATE** see under **IMIDOESTERS**

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**DIMETHYLTRYPTAMINE** see under **TRYPTAMINES**

**DIMETRIDAZOLE** see under **NITROIMIDAZOLES**

**DIMEXIDE** see **DIMETHYL SULFOXIDE**

**DIMILIN** see under **JUVENILE HORMONES**

**DIMINAZENE** see under **AMIDINES**

**DIMYRISTOYLLECITHIN** see **DIMYRISTOYLPHOSPHATIDYLCHOLINE**

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**DINITROCRESOLS** see under **CRESOLS**

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see related **SAXITOXIN**

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**DIPHENYL OXIDES** see **PHENYL ETHERS**

**DIPHENYLAMINE** see under **ANILINE COMPOUNDS**

**DIPHENYLBUTAZONE** see **PHENYLBUTAZONE**

**DIPHENYLCARBAZIDE** see under **SEMICARBAZIDES**

**DIPHENYLHEXATRIENE** see under **POLYENES**

**DIPHENYLHYDANTOIN** see **PHENYTOIN**

**DIPHENYLHYDRAMIN** see **DIPHENHYDRAMINE**

**DIPHENYLMETHYL COMPOUNDS** see **BENZHYDRYL COMPOUNDS**

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**DJUNGARIAN HAMSTER** see HAMSTERS

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## DNA

see related
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REPETITIVE SEQUENCES, NUCLEIC ACID

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**ENDODONTIC ENDOSSEOUS IMPLANTATION** see **DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC**

**ENDODONTIC STABILIZATION** see **DENTAL IMPLANTATION, ENDOSSEOUS, ENDODONTIC**

## ENDODONTICS

see related
**DENTAL PULP DISEASES**
**TOOTH DISCOLORATION**

**ENDOLIMAX** see under **AMOEBA**

**ENDOLYMPH** see under **LABYRINTHINE FLUIDS**

**ENDOLYMPHATIC DUCT** see under **LABYRINTH**

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**EPIMERASES** see under **ISOMERASES**

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**EPIPHYSEAL CARTILAGE** see **GROWTH PLATE**

**EPIPHYSEAL PLATE** see **GROWTH PLATE**

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**EPIPHYSIOLYSIS** see **EPIPHYSES, SLIPPED**

**EPIPHYSIS CEREBRI** see **PINEAL BODY**

**EPIPODOPHYLLOTOXIN** see **PODOPHYLLOTOXIN**

**EPIRIZOLE** see under **PYRAZOLES**

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**EPITESTOSTERONE** see under **TESTOSTERONE**

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**EPITHELIOMA** see **CARCINOMA**

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**EPOXIDE HYDRASES** see **EPOXIDE HYDROLASES**

**EPOXIDE HYDRATASES** see **EPOXIDE HYDROLASES**

## EPOXIDE HYDROLASES

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**Health Sciences Serials:** Published quarterly in microfiche only. Each issue contains information on some 41,500 serials in NLM's SERLINE data base; many records include locator information for 120 libraries in the U.S. Annual subscription: $15.00 ($18.75 foreign); single issue $4.75 ($5.95 foreign). GPO Subscription Code: *HHS*

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PROTEIN-GLUTAMINE GAMMA-GLUTAMYLTRANSFERASE

GLUTAMYL T RNA SYNTHETASE see under AMINO ACYL T RNA SYNTHETASES

GLUTAMYL TRANSPEPTIDASE see GAMMA-GLUTAMYLTRANSFERASE

GLUTARALDEHYDE see under ALDEHYDES

GLUTARALDEHYDE-STABILIZED GRAFTS see BIOPROSTHESIS

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GLYCOGENOSIS 4 see under GLYCOGENOSIS

GLYCOGENOSIS 5 see under GLYCOGENOSIS

GLYCOGENOSIS 6 see under GLYCOGENOSIS

GLYCOGENOSIS 7 see under GLYCOGENOSIS

GLYCOGENOSIS 8 see under GLYCOGENOSIS

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**GLYCYLGLYCINE** see under **DIPEPTIDES**

**GLYCYRRHETIC ACID** see **GLYCYRRHETINIC ACID**

## GLYCYRRHETINIC ACID

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**GONADAL DYSGENESIS, 45,XO** see **TURNER'S SYNDROME**

**GONADAL DYSGENESIS, 46,XY** see under **GONADAL DYSGENESIS**

**GONADAL DYSGENESIS, MIXED** see under **GONADAL DYSGENESIS**

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**GONADOTROPINS, HUMAN MENOPAUSAL** see **MENOTROPINS**

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see related OVUM

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GRADENIGO SYNDROME see OTITIS MEDIA

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GRAFFI VIRUS see under MOUSE LEUKEMIA VIRUSES

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**GRAFT-VERSUS-HOST DISEASE** see **GRAFT VS HOST DISEASE**

## GRAFT VS HOST DISEASE

see related
GRAFT VS HOST REACTION

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**GRAIN** see **CEREALS**

## GRAM-NEGATIVE AEROBIC BACTERIA

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Antimicrobial activity and beta-lactamase stability of SK&F 88070 compared with other agents. Neu HC, et al.
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**GRAMINEA** see **GRASSES**

**GRANA** see **CHLOROPLASTS**

**GRANTS AND SUBSIDIES, EDUCATIONAL** see **TRAINING SUPPORT**

**GRANTS AND SUBSIDIES, GOVERNMENT** see **FINANCING, GOVERNMENT**

**GRANTS AND SUBSIDIES, RESEARCH** see **RESEARCH SUPPORT**

## GRANULATION TISSUE

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**GTP CYCLOHYDROLASE** see under **AMINOHYDROLASES**

**GTP PHOSPHOHYDROLASE** see under **PHOSPHATASES**

**GTP-REGULATORY PROTEIN** see **GUANINE NUCLEOTIDE REGULATORY PROTEIN**

**GUAMA GROUP VIRUSES** see under **BUNYAVIRIDAE**

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GUANOSINE DIPHOSPHATE see under GUANINE NUCLEOTIDES

GUANOSINE DIPHOSPHATE FUCOSE see under NUCLEOSIDE DIPHOSPHATE SUGARS

GUANOSINE DIPHOSPHATE MANNOSE see under NUCLEOSIDE DIPHOSPHATE SUGARS

GUANOSINE DIPHOSPHATE SUGARS see under NUCLEOSIDE DIPHOSPHATE SUGARS

GUANOSINE MONOPHOSPHATE see under GUANINE NUCLEOTIDES

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GUANOSINE PHOSPHATES see GUANINE NUCLEOTIDES

GUANOSINE TETRAPHOSPHATE see under GUANINE NUCLEOTIDES

## GUANOSINE TRIPHOSPHATE

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## H(+)-TRANSPORTING ATPASE

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**HBA1** see **HEMOGLOBIN A, GLYCOSYLATED**

**HBCAG** see **HEPATITIS B CORE ANTIGENS**

**HBSAG** see **HEPATITIS B SURFACE ANTIGENS**

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**HEARING LOSS, CONDUCTIVE** see under **HEARING LOSS, PARTIAL**

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**HEARING LOSS, FUNCTIONAL** see under **HEARING LOSS, PARTIAL**

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**HEMOGLOBIN E** see under **HEMOGLOBINS, ABNORMAL**

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**HEMOGLOBIN H DISEASE** see **THALASSEMIA**

**HEMOGLOBIN J** see under **HEMOGLOBINS, ABNORMAL**

**HEMOGLOBIN M** see under **HEMOGLOBINS, ABNORMAL**

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HEPATITIS VIRUS, INFECTIOUS see HEPATITIS A VIRUS

HEPATITIS VIRUS, MARMOSET see HEPATITIS VIRUSES

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**HERPES ZOSTER VIRUS** see **VARICELLA-ZOSTER VIRUS**

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**HERPESVIRUS VARICELLAE** see **VARICELLA-ZOSTER VIRUS**

**HERPETOMONAS** see **TRYPANOSOMATIDAE**

**HERTZIAN WAVES** see **RADIO WAVES**

**HESPERIDIN** see under **BIOFLAVONOIDS**

**HETE** see **HYDROXYEICOSATETRAENOIC ACIDS**

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### DIAGNOSIS

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**HISTAMINE BINDING SITES** see **RECEPTORS, HISTAMINE**

## HISTAMINE H1 RECEPTOR BLOCKADERS

see related
BRONCHODILATOR AGENTS
HYPERSENSITIVITY, IMMEDIATE

CHEMICAL SYNTHESIS

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see related
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**HISTAMINE METHYLTRANSFERASE** see under **METHYLTRANSFERASES**

**HISTAMINE RECEPTORS** see **RECEPTORS, HISTAMINE**

**HISTIDASE** see under **AMMONIA–LYASES**

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**HISTIDINE DECARBOXYLASE** see under **CARBOXY-LYASES**

**HISTIDINOL** see under **IMIDAZOLES**

**HISTIDINOLPHOSPHATASE** see under **PHOSPHOMONOESTERASES**

**HISTIDYL T RNA SYNTHETASE** see under **AMINO ACYL T RNA SYNTHETASES**

## HISTIOCYTES

see related **RETICULOENDOTHELIAL SYSTEM**

## HISTIOCYTOMA

DIAGNOSIS

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DRUG THERAPY

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ETIOLOGY

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PATHOLOGY

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## HISTOCOMPATIBILITY ANTIGENS

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## HOMOCYSTINURIA

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**P-HYDROXYAMPHETAMINE** see under **AMPHETAMINES**

**HYDROXYAMPICILLIN** see **AMOXICILLIN**

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**4-HYDROXYBENZOATE-3-MONOOXYGENASE** see under **HYDROXYLASES**

**4-HYDROXYBENZOIC ACIDS** see **PARABENS**

## HYDROXYBUTYRATES

### ADMINISTRATION & DOSAGE

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[Effect of lithium oxybutyrate on the serotonin and 5-hydroxyindoleacetic acid content in the brain of rabbits] Saratikov AS, et al. **Biull Eksp Biol Med** 1986 Mar; 101(3):312-5 (Eng. Abstr.) **(Rus)**

**HYDROXYCARBAMID** see **HYDROXYUREA**

**HYDROXYCHLOROBENZENES** see **CHLOROPHENOLS**

**HYDROXYCHLOROCHIN** see **HYDROXYCHLOROQUINE**

## HYDROXYCHLOROQUINE

### THERAPEUTIC USE

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**25-HYDROXYCHOLECALCIFEROL 1-HYDROXYLASE** see under **STEROID HYDROXYLASES**

**25-HYDROXYCHOLECALCIFEROL** see **CALCIFEDIOL**

## HYDROXYCHOLECALCIFEROLS

### CHEMICAL SYNTHESIS

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**18-HYDROXYCORTICOSTERONE** see under **CORTICOSTERONE**

## 4-HYDROXYCOUMARINS

### ADVERSE EFFECTS

Endoscopic finding of an intramural haemorrhage in the duodenum under anticoagulant therapy with phenprocoumon. Botzler R, et al. **Endoscopy** 1986 Mar; 18(2):64-5

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**7-HYDROXYCOUMARINS** see **UMBELLIFERONES**

**18-HYDROXYDESOXYCORTICOSTERONE** see under **DESOXYCORTICOSTERONE**

## HYDROXYDOPAMINES

### PHARMACODYNAMICS

6-Hydroxydopamine treatment does not affect the young rat's ability to modify its response when changing from food to water deprivation. Brenner E, et al. **Behav Brain Res** 1986 Jan;19(1):89-92

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N-methyl-4-phenylpyridine (MMP+) together with 6-hydroxydopamine or dopamine stimulates Ca2+ release from mitochondria. Frei B, et al. **FEBS Lett** 1986 Mar 17; 198(1):99-102

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6-Hydroxydopamine lesions of the medial prefrontal cortex fail to influence intravenous self-administration of cocaine. Martin-Iverson MT, et al. **Psychopharmacology (Berlin)** 1986;88(3):310-4

**20-HYDROXYECDYSONE** see **ECDYSTERONE**

## HYDROXYEICOSATETRAENOIC ACIDS

### BIOSYNTHESIS

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### METABOLISM

Generation of hydroxyeicosatetraenoic acids by human inflammatory cells: analysis by thermospray liquid chromatography-mass spectrometry. Richmond R, et al. **Biochim Biophys Acta** 1986 Apr 11;881(2):159-66

**HYDROXYESTRONES** see under **ESTRONE**

**HYDROXYETHYL STARCH** see under **STARCH**

**HYDROXYETHYLRUTOSIDE** see under **RUTIN**

**HYDROXYIMINO COMPOUNDS** see **OXIMES**

## HYDROXYINDOLEACETIC ACID

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Anaesthesia abolishes the effect of valproate on extracellular 5-HIAA, DOPAC and ascorbate as measured in rat striatum by differential pulse voltammetry. Crespi F, et al. **Br J Pharmacol** 1986 Jan;87(1):279-83

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### ANALYSIS

Dissociation of increased lauric acid omega-hydroxylase activity from the antilipidemic action of clofibrate. Reich NO, et al. **Biochem Pharmacol** 1986 Apr 15;35(8):1227-33

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Gamma-butyrobetaine hydroxylase: stereochemical course of the hydroxylation reaction. Englard S, et al. **Biochemistry** 1985 Feb 26;24(5):1110-6

Amitriptyline metabolism: association with debrisoquin hydroxylation in nonsmokers. Mellström B, et al. **Clin Pharmacol Ther** 1986 Apr;39(4):369-71

**3-HYDROXY-3-METHYLGLUTARIC ACID** see under **GLUTARATES**

## HYDROXYMETHYLGLUTARYL COA REDUCTASES

### ANALYSIS

Regulation of enzymes involved in the biosynthesis of the sesquiterpene antibiotic pentalenolactone in Streptomyces arenae. Maurer KH, et al. **J Antibiot (Tokyo)** 1986 Feb; 39(2):266-71

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**HYDROXYMETHYLGLUTARYL COA SYNTHASE** see under **KETOACID-LYASES**

**HYDROXYNAPHTHALENES** see **NAPHTHOLS**

**P-HYDROXYNOREPHEDRINE** see under **PHENYLPROPANOLAMINE**

**HYDROXYPENTENAL** see under **ALDEHYDES**

**2-HYDROXYPHENETHYLAMINE** see under **PHENETHYLAMINES**

**HYDROXYPHENYLAZOURACIL** see under **URACIL**

**HYDROXYPHENYLBUTAZONE** see **OXYPHENBUTAZONE**

**4-HYDROXYPHENYLPYRUVATE DIOXYGENASE** see under **OXYGENASES**

**21-HYDROXYPROGESTERONE** see **DESOXYCORTICOSTERONE**

## HYDROXYPROLINE

### ANALYSIS

Proline hydroxylation of collagens synthesized at different temperatures in vivo by two poikilothermic species. Cohen-Solal L, et al. **Comp Biochem Physiol [B]** 1986; 83(2):483-6

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Labile oligomeric structure of human placental 15-hydroxyprostaglandin dehydrogenase. Tanaka T, et al. **Biochem Biophys Res Commun** 1986 Mar 28;135(3):1058-63

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**8-HYDROXYQUINOLINE** see under **HYDROXYQUINOLINES**

## HYDROXYQUINOLINES

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Urinary bladder effects after oral dosages of the antidiarrhoeal drug (clioquinol/phanquinone/oxyphenonium bromide) in experimental dogs. Chaiyabutr N, et al. **J Med Assoc Thai** 1985 Dec;68(12):649-53

## 3-HYDROXYSTEROID DEHYDROGENASES

### ANALYSIS

Cholesterol oxidase as a structural probe of biological membranes: its application to brush-border membrane. Thurnhofer H, et al. **Biochim Biophys Acta** 1986 Mar 27; 856(1):174-81

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Late-onset 3 beta-ol-hydroxysteroid-dehydrogenase deficiency: prevalence, clinical presentation and endocrine pattern. Carmina E, et al. **Acta Eur Fertil** 1985 Nov-Dec; 16(6):427-30

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Rat liver microsomal 3 alpha-hydroxysteroid dehydrogenase and dihydrodiol dehydrogenase: solubilization, separation and partial purification. Boutin JA, et al. **Biochem Biophys Res Commun** 1986 Mar 28;135(3):795-801

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3 alpha, 3 beta and 17 beta-hydroxysteroid dehydrogenase activities in the cytoplasmic and microsomal fractions of human liver. Lang E, et al. **Res Exp Med (Berl)** 1986; 186(1):47-59

## 17-HYDROXYSTEROID DEHYDROGENASES

[Various protocols for determining estrogens by the enzymatic method using estradiol dehydrogenase. Respective procedures and advantages] Cristol P, et al. **Ann Biol Clin (Paris)** 1985;43(6):878-84 (Eng. Abstr.) **(Fre)**

### ISOLATION & PURIFICATION

Human placental estradiol 17 beta-dehydrogenase: sequence of a histidine-bearing peptide in the catalytic region. Murdock GL, et al. **Biochemistry** 1986 Feb 11;25(3):641-6

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## 20-HYDROXYSTEROID DEHYDROGENASES

### METABOLISM

Expression of 20 alpha-hydroxysteroid dehydrogenase activity in human lymphoid and non lymphoid cells. Carbone A, et al. **Clin Exp Immunol** 1986 Jan;63(1):203-9

**HYDROXYTESTOSTERONES** see under **TESTOSTERONE**

**HYDROXYTETRACYCLINE** see **OXYTETRACYCLINE**

**HYDROXYTRYPTAMINE** see **SEROTONIN**

## HYDROXYTRYPTOPHAN

### METABOLISM

Differential effect of carbidopa on the concentration of rat pineal and hypothalamic indoleamines. Oxenkrug GF, et al. **J Pineal Res** 1984;1(4):349-53

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**HYDROXYTRYPTOPHOL** see under **INDOLES**

**HYDROXYTYRAMINE** see **DOPAMINE**

## HYDROXYUREA

### PHARMACODYNAMICS

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**25-HYDROXYVITAMIN D3** see **CALCIFEDIOL**

**HYDROXYVITAMINS D** see **HYDROXYCHOLECALCIFEROLS**

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Effects of hygiene among the uncircumcised. Krueger H, et al. **J Fam Pract** 1986 Apr;22(4):353–5

**HYGROMYCIN B** see under **ANTIBIOTICS**

**HYLOBATES** see under **PONGIDAE**

**HYMECROMONE** see under **UMBELLIFERONES**

## HYMEN

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## HYMENOLEPIASIS

### OCCURRENCE

[Role of pinworms in the infestation of children with the dwarf tapeworm] Chobanov RE, et al. **Med Parazitol (Mosk)** 1986 Jan–Feb;(1):79–82 (Eng. Abstr.) **(Rus)**

## HYMENOLEPIS

### METABOLISM

Immunoenzymatic demonstration of a presumptive prolactin-like substance in Hymenolepis nana. Kumazawa H, et al. **Z Parasitenkd** 1986;72(1):137–9

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Precocious expression of the final larval instar developmental pattern in larvae of Trichoplusia ni pseudoparasitized by Chelonus spp. Jones D, et al. **Comp Biochem Physiol [B]** 1986;83(2):339–46

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Wasp venom peptides; wasp kinins, new cytotrophic peptide families and their physico-chemical properties. Nakajima T, et al. **Peptides** 1985;6 Suppl 3:425–30

## HYOID BONE

### TRANSPLANTATION

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**HYOSCINE** see **SCOPOLAMINE**

**HYOSCYAMINE** see **ATROPINE**

**HYPERACTIVITY, MOTOR** see **HYPERKINESIS**

## HYPERALDOSTERONISM

### DIAGNOSIS

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### DRUG THERAPY

[Bartter's syndrome in 2 triplet sisters treated for 7 years with indomethacin] Storm K, et al. **Ugeskr Laeger** 1986 Mar 10;148(11):654–5 (Eng. Abstr.) **(Dan)**

### ETIOLOGY

[Three cases of primary aldosteronism including one case with postoperative ventricular tachycardia] Ejiri S, et al. **Hinyokika Kiyo** 1986 Jan;32(1):67–76 (Eng. Abstr.) **(Jpn)**

### OCCURRENCE

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**HYPERALGESIA** see under **HYPERESTHESIA**

**HYPERALIMENTATION, ENTERAL** see **ENTERAL FEEDING**

**HYPERALIMENTATION, PARENTERAL** see **PARENTERAL HYPERALIMENTATION**

## HYPERBARIC OXYGENATION

Hyperbaric oxygen in multiple sclerosis [letter] **Br Med J [Clin Res]** 1986 Mar 22;292(6523):829–30
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[Hyperbaric medicine] Bakker DJ. **Ned Tijdschr Geneeskd** 1986 Mar 8;130(10):436–41 **(Dut)**
[Indications and contra-indications for the use of hyperbaric oxygen in jaw surgery] van Merkesteyn JP. **Ned Tijdschr Geneeskd** 1986 Mar 8;130(10):445–8 (Eng. Abstr.) **(Dut)**
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[Effect of hyperbaric oxygenation on the effectiveness of parenteral nutrition in peritonitis patients] Korotaev GM, et al. **Anesteziol Reanimatol** 1986 Jan–Feb;(1):46–9 (Eng. Abstr.) **(Rus)**
[Effect of hyperbaric oxygenation on total water content of brain tissue in experimental traumatic edema of the brain] Isakov IuV, et al. **Zh Vopr Neirokhir** 1986 Jan–Feb;(1):25–7 (Eng. Abstr.) **(Rus)**

**HYPERBETALIPOPROTEINEMIA** see **HYPERCHOLESTEROLEMIA, FAMILIAL**

## HYPERBILIRUBINEMIA

### METABOLISM

Inhibition of the biosynthesis of uroporphyrinogen and heme in rat liver during obstructive jaundice produced by bile duct ligation. Piper WN, et al. **Arch Biochem Biophys** 1986 Apr;246(1):143–8

## HYPERBILIRUBINEMIA, HEREDITARY

### RADIONUCLIDE IMAGING

[Hepatobiliary scintigraphy with Tc-99m-PMT in a case of Rotor's disease. Comparison with the image of Tc-99m E-HIDA] Yoshida S, et al. **Kaku Igaku** 1985 Dec; 22(12):1823–7 **(Jpn)**

**HYPERBILIRUBINEMIA, NEONATAL** see **JAUNDICE, NEONATAL**

## HYPERCALCEMIA

### BLOOD

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### DRUG THERAPY

A retrospective evaluation of the medical treatment of malignancy-associated hypercalcemia. Kimura S, et al. **Jpn J Cancer Res** 1986 Jan;77(1):85–91

### ETIOLOGY

Spontaneous hypercalcemia in patients undergoing dialysis. Etiologic and therapeutic considerations. Piraino BM, et al. **Am J Med** 1986 Apr;80(4):607–15
Pathogenesis of hypercalcaemia of malignancy. Mundy GR. **Clin Endocrinol (Oxf)** 1985 Dec;23(6):705–14 (47 ref.)
Evaluation of primary hyperparathyroidism and hypercalcemia. Waldstein SS. **Curr Surg** 1986 Jan–Feb; 43(1):1–3
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Transplacental 45Ca and 32P flux in the guinea pig: effect of maternal hypercalcaemia and hypocalcaemia. Derewlany LO, et al. **Can J Physiol Pharmacol** 1985 Dec; 63(12):1577–80
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[Effect of somatostatin on hypercalcemia stimulated gastric juice and exocrine pancreas secretion in the human] Lenz T, et al. **Z Gastroenterol** 1986 Feb;24(2):74–9 (Eng. Abstr.) **(Ger)**

## HYPERCAPNIA

### ETIOLOGY

[Central inspiratory drive response to hypercapnia in patients with COPD] Qian W. **Chung Hua I Hsueh Tsa Chih** 1985 Jul;65(7):396–9, 444 (Eng. Abstr.) **(Chi)**

### PHYSIOPATHOLOGY

Hypercapnea and hypoxia challenge tests in infants at risk for sudden infant death syndrome. Lindenberg JA, et al. **Am J Dis Child** 1986 May;140(5):466–70
Effect of hypercapnia on fluid filtration rate during forward and reverse perfusion of isolated rabbit lungs. Sánchez de León R, et al. **Crit Care Med** 1986 Apr;14(4):285–7
Non-invasive assessment of the cerebral vasomotor reactivity by means of transcranial Doppler sonography during hyper- and hypocapnea. Ringelstein EB, et al. **Klin Wochenschr** 1986 Feb 17;64(4):194–5

**HYPERCEMENTOSIS** see under **TOOTH DISEASES**

**HYPERCHOLESTEREMIA** see **HYPERCHOLESTEROLEMIA**

## HYPERCHOLESTEROLEMIA

### COMPLICATIONS

[Correlation between the biological risk factors of arteriosclerosis and disorders of the central regulation of behavior in persons under 30 years of age. I] Ostrowski TM. **Kardiol Pol** 1985;28(6):398–403 **(Pol)**

### ETIOLOGY

Comparison of experimental hypercholesterolemia and atherosclerosis in Göttingen mini-pigs and Swedish domestic swine. Jacobsson L. **Atherosclerosis** 1986 Feb; 59(2):205–13

### METABOLISM

Removal of low-density lipoproteins in patients by extracorporeal immunoadsorption. Saal SD, et al. **Am J Med** 1986 Apr;80(4):583–9
[The spectrum of fatty acids in blood lipids and lymph of the small intestine in dogs with hypercholesterolemia] Kosukhin AB, et al. **Vopr Pitan** 1986 Jan–Feb;(1):59–63 (Eng. Abstr.) **(Rus)**

### PATHOLOGY

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### PHYSIOPATHOLOGY

Changes in mechanical responses of vascular smooth muscles to acetylcholine, noradrenaline and high-potassium solution in hypercholesterolemic rabbits. Ibengwe JK, et al. **Br J Pharmacol** 1986 Feb;87(2):395–402
[Arterial tonus in men 40 to 59 with hypercholesterolemia, arterial hypertension and ischemic heart disease] Il'ina GN. **Ter Arkh** 1986;58(1):22–5 (Eng. Abstr.) **(Rus)**

### VETERINARY

Spontaneous hypercholesterolemia and atherosclerosis in a titi monkey. Roberts J, et al. **J Med Primatol** 1986; 15(2):131–8

**HYPERCHOLESTEROLEMIA, ESSENTIAL** see **HYPERCHOLESTEROLEMIA, FAMILIAL**

## HYPERCHOLESTEROLEMIA, FAMILIAL

### BLOOD

Plasma triglycerides related decrease in high-density lipoprotein cholesterol and its association with myocardial infarction in heterozygous familial hypercholesterolemia. Moorjani S, et al. **Metabolism** 1986 Apr;35(4):311-6

### DRUG THERAPY

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### PHYSIOPATHOLOGY

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## HYPEREMIA

### ETIOLOGY

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### CHEMICALLY INDUCED

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### ETIOLOGY

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## HYPERGAMMAGLOBULINEMIA

### COMPLICATIONS

Cold urticaria associated with C4 deficiency and elevated IgM. Stafford CT, et al. **Ann Allergy** 1986 Apr;56(4):313-6

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### COMPLICATIONS

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**HYPERGLYCEMIC HYPEROSMOLAR NONKETOTIC COMA** see under **DIABETIC COMA**

## HYPERHIDROSIS

### THERAPY

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### CHEMICALLY INDUCED

Interplay of various factors in glucose-induced hyperkalemia during captopril treatment. Radó JP, et al. **Int J Clin Pharmacol Ther Toxicol** 1986 Feb;24(2):69-76

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[Favorable results of the treatment of the hyperkalemic form of periodic paralysis with salbutamol] Rysz A, et al. **Neurol Neurochir Pol** 1985 Sep-Oct;19(5):444-7 (Eng. Abstr.) **(Pol)**

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## HYPERKINESIS

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Dietary characteristics of hyperactive and control boys. Wolraich ML, et al. **J Am Diet Assoc** 1986 Apr;86(4):500-4

**HYPERKINETIC HEART SYNDROME** see **NEUROCIRCULATORY ASTHENIA**

**HYPERKINETIC SYNDROME** see **ATTENTION DEFICIT DISORDER WITH HYPERACTIVITY**

**HYPERLIPEMIA** see **HYPERLIPIDEMIA**

**HYPERLIPEMIA, MIXED** see **HYPERLIPOPROTEINEMIA TYPE V**

## HYPERLIPIDEMIA

### BLOOD

Clarifying lipemic samples with an air-driven ultracentrifuge for determination of high-density lipoprotein cholesterol. Reddy MN, et al. **Clin Chim Acta** 1986 Jan 30;154(2):141-4

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The effect of experimental hyperlipidemia on the angiogenic activity of rabbit peripheral blood lymphocytes. Polakowski IJ, et al. **Arch Immunol Ther Exp (Warsz)** 1985; 33(6):837-40

## HYPERLIPIDEMIA, FAMILIAL COMBINED

### DRUG THERAPY

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**HYPERLIPIDEMIA, MULTIPLE LIPOPROTEIN-TYPE** see **HYPERLIPIDEMIA, FAMILIAL COMBINED**

## HYPERLIPOPROTEINEMIA

### BLOOD

[Relation between platelet aggregation in ischemic heart disease patients and the type of hyperlipoproteinemia] Kotsiumbas EM. **Klin Med (Mosk)** 1986 Jan;64(1):72-4 **(Rus)**

[Nutrition and dyslipoproteinemias in schoolchildren aged 13 to 16] Dorofeeva TG, et al. **Ter Arkh** 1986;58(1):33-6 (Eng. Abstr.) **(Rus)**

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**HYPERLIPOPROTEINEMIA TYPE II** see **HYPERCHOLESTEROLEMIA, FAMILIAL**

## HYPERLIPOPROTEINEMIA TYPE IV

### DRUG THERAPY

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## HYPERLIPOPROTEINEMIA TYPE V

### FAMILIAL & GENETIC

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**HYPERMENORRHEA** see **MENORRHAGIA**

**HYPERMETROPIA** see **HYPEROPIA**

**HYPERMOBILITY, JOINT** see **JOINT INSTABILITY**

## HYPERNATREMIA

### ETIOLOGY

[A case of essential hypernatremia presumably caused by partial diabetes insipidus, upward resetting of the osmostat and hypodipsia] Inoue M, et al. **Nippon Naika Gakkai Zasshi** 1985 Dec;74(12):1699-703 **(Jpn)**

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Safe oral rehydration of hypertonic dehydration. Blum D, et al. **J Pediatr Gastroenterol Nutr** 1986 Mar-Apr; 5(2):232-5

**HYPERNEPHROMA** see **CARCINOMA, RENAL CELL**

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**HYPEROSTOSIS CORTICALIS GENERALISATA** see **OSTEOCHONDRODYSPLASIAS**

## HYPERPARATHYROIDISM

### COMPLICATIONS

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[High-resolution 7.5-/10-MHz B-scan sonography for the localization of hyperparathyroid tumors] Zocholl G, et al. **ROFO** 1986 Apr;144(4):422-7 (Eng. Abstr.) **(Ger)**

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### SURGERY

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## HYPERPARATHYROIDISM, SECONDARY

### DIAGNOSIS

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### PHYSIOPATHOLOGY

Endogenous calcitonin does not protect against hyperparathyroid bone disease in renal failure. Malluche HH, et al. **Miner Electrolyte Metab** 1986;12(2):113-8

### SURGERY

Effect of parathyroid surgery on cartilage calcification. Van Geertruyden J, et al. **World J Surg** 1986 Feb;10(1):111-5

**HYPERPHAGIA** see under **APPETITE DISORDERS**

## HYPERPLASIA

see related **PRECANCEROUS CONDITIONS**

Intravascular papillary endothelial hyperplasia in the hand. Wehbé MA, et al. **J Hand Surg [Am]** 1986 Mar;11(2):275-9

**HYPERPOTASSEMIA** see **HYPERKALEMIA**

**HYPERPREBETALIPOPROTEINEMIA** see **HYPERLIPOPROTEINEMIA TYPE IV**

## HYPERPROLACTINEMIA

### BLOOD

Hormone profile in hyperprolactinemic infertile men. Mićić S, et al. **Arch Androl** 1985;15(2-3):123-8

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Hyperprolactinemia in infertile Thai women, its incidence and treatment with bromocriptine. Srivannaboon S, et al. **J Med Assoc Thai** 1985 Dec;68(12):638-41

### DRUG THERAPY

Bromocriptine--an update. Schlechte JA. **Iowa Med** 1986 Mar;76(3):133-5

### ETIOLOGY

Ectopic prolactinoma in a patient with hyperparathyroidism and abnormal sellar radiography. Shenker Y, et al. **J Clin Endocrinol Metab** 1986 May;62(5):1065-9

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Modulation of ovarian LH receptor and serum hormone levels in rats with hyperprolactinemia induced by administration of ovine prolactin or sulpiride. Ota H, et al. **Tohoku J Exp Med** 1986 Feb;148(2):213-27

### PATHOLOGY

Effects of experimentally induced chronic hyperprolactinemia on the ultrastructure of pinealocytes in male rats. Karasek M, et al. **J Pineal Res** 1984;1(3):237-44

### PHYSIOPATHOLOGY

Decreased sensitivity to insulin in women with microprolactinomas. Serri O, et al. **Fertil Steril** 1986 Apr; 45(4):572-4

**HYPERPYREXIA, MALIGNANT** see **MALIGNANT HYPERTHERMIA**

## HYPERSENSITIVITY

see related **DESENSITIZATION, IMMUNOLOGIC**

### COMPLICATIONS

Alveolar macrophage and its participation in the inflammatory processes of allergic asthma. Tonnel AB, et al. **Bull Eur Physiopathol Respir** 1986;22 Suppl 7:70-7

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### DRUG THERAPY

Modulation of in vitro anaphylaxis of guinea-pig isolated tracheal segments by azelastine, inhibitors of arachidonic acid metabolism and selected antiallergic drugs. Chand N, et al. **Br J Pharmacol** 1986 Feb;87(2):443-8

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### ETIOLOGY

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G. **Schriftenr Ver Wasser Boden Lufthyg** 1985;65:311–4 **(Ger)**

IMMUNOLOGY

Allergy in the Mediterranean area. II: Cross-allergenicity among Urticaceae pollens (Parietaria and Urtica). Bousquet J, et al. **Clin Allergy** 1986 Jan;16(1):57–64

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METABOLISM

Suppression of pulmonary and systemic vascular histamine H2-receptors in allergic sheep. Ahmed T, et al. **J Appl Physiol** 1986 Mar;60(3):791–7

OCCURRENCE

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PATHOLOGY

[Polyneuropathy in allergic granulomatosis and angiitis (Churg-Strauss syndrome)] Nüsslein HG, et al. **Nervenarzt** 1986 Mar;57(3):140–4 **(Ger)**

PHYSIOPATHOLOGY

The inhibitory effect of ketotifen on in vitro histamine release in allergic patients. Oehling A, et al. **Allergol Immunopathol (Madr)** 1985 Nov–Dec;13(6):475–85

PREVENTION & CONTROL

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PSYCHOLOGY

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**HYPERSENSITIVITY, CONTACT** see **DERMATITIS, CONTACT**

## HYPERSENSITIVITY, DELAYED

see related
CELL MIGRATION INHIBITION

Eczematous reactions in atopic patients caused by epicutaneous testing with inhalant allergens. Reitamo S, et al. **Br J Dermatol** 1986 Mar;114(3):303–9

CHEMICALLY INDUCED

Hypersensitivity to chromated catgut sutures: a case report and review of the literature. Engler RJ, et al. **Ann Allergy** 1986 Apr;56(4):317–20

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IMMUNOLOGY

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## HYPERSENSITIVITY, IMMEDIATE

COMPLICATIONS

A history of acute suppurative otitis media and allergic symptomatology in children with chronic secretory otitis media and controls. Mills R, et al. **Clin Otolaryngol** 1985 Dec;10(6):303–6

FAMILIAL & GENETIC

Connection between two peripherical markers in a group of asthmatic patients. Monteseirín FJ, et al. **Allergol Immunopathol (Madr)** 1985 Nov–Dec;13(6):509–12

Predicting skin test sensitivity and total serum IgE levels in family members. Meyers DA, et al. **J Allergy Clin Immunol** 1986 Apr;77(4):608–15

IMMUNOLOGY

Regulation of ongoing IgE synthesis by human T-cell supernatants derived from atopic and nonatopic donors. Kanowith-Klein S, et al. **Int Arch Allergy Appl Immunol** 1986;80(1):33–8

Circulating IgG autoantibodies to IgE in atopic syndromes. Quinti I, et al. **J Allergy Clin Immunol** 1986 Apr; 77(4):586–94

OCCURRENCE

Predictors of atopic disease: cord blood IgE and month of birth. Croner S, et al. **Allergy** 1986 Jan;41(1):68–70

PATHOLOGY

Histopathological support of antagonism of allergen-induced mast cell mediator release in human skin by a beta-2-agonist. Grönneberg R, et al. **Allergy** 1986 Jan; 41(1):71–4

**HYPERSENSITIVITY PNEUMONITIS** see **ALVEOLITIS, EXTRINSIC ALLERGIC**

**HYPERSOMNIA** see under **SLEEP DISORDERS**

**HYPERSOMNIA WITH PERIODIC RESPIRATION** see **SLEEP APNEA SYNDROMES**

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COMPLICATIONS

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**HYPERTHERMIA, MALIGNANT** see **MALIGNANT HYPERTHERMIA**

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### ETIOLOGY

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### PHYSIOPATHOLOGY

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### ETIOLOGY

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## HYPOCALCEMIA

### BLOOD

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Complex biochemical syndrome of hypocalcemia and hypoparathyroidism during cytotoxic treatment of an infant with leukemia. Wandrup J, et al. Clin Chem 1986 Apr; 32(4):706-8

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### PHYSIOPATHOLOGY

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### DIAGNOSIS

Hypochondriasis. An evaluation of the DSM-III criteri medical outpatients. Barsky AJ, et al. Arch Gen Psychiatry 1986 May;43(5):493-500

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Monosymptomatic hypochondriacal psychosis manifestin delusions of infestation: case studies of treatment haloperidol. Andrews E, et al. J Clin Psychiatry 1986 A 47(4):188-90

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HYPODONTIA see ANODONTIA

HYPOGALACTIA see LACTATION DISORDERS

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### METABOLISM

Inputs to motoneurones in the hypoglossal nucleus of rat: light and electron microscopic immunocytochemi for choline acetyltransferase, substance P and enkepha using monoclonal antibodies. Connaughton M, et al. Neuroscience 1986;17(1):205-24

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### BLOOD

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[The relatively frequent incidence of severe sulfonylurea-induced hypoglycemia in the last 25 yea Switzerland. Results of 2 surveys in Switzerland in and 1984] Berger W, et al. Schweiz Med Wochenschr Feb 1;116(5):145-51 (Eng. Abstr.)

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**HYPOPROCONVERTINEMIA** see **FACTOR VII DEFICIENCY**

## HYPOPROTEINEMIA

see related
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**HYPOSENSITIZATION THERAPY** see **DESENSITIZATION, IMMUNOLOGIC**

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**HYPOTHALAMIC NUCLEUS, VENTROMEDIAL** see **VENTROMEDIAL HYPOTHALAMIC NUCLEUS**

**HYPOTHALAMIC SUBSTANCE P** see **SUBSTANCE P**

## HYPOTHALAMO-HYPOPHYSEAL SYSTEM

see related
**PITUITARY HORMONE RELEASING HORMONES**

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NEWBORN INTENSIVE CARE UNITS see INTENSIVE CARE UNITS, NEONATAL

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## NICOTINAMIDE

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## NICOTINAMIDE MONONUCLEOTIDE

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[Effect of nicotine on auditory functions in the rat, studied by electrocochleography and auditory evoked potentials of the brain stem] de Lavernhe-Lemaire MC, et al. **Arch Int Physiol Biochim** 1985 Nov;93(4):253-61 (Eng. Abstr.) (Fre)

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NICOTINIC ACID see NIACIN

## NICOTINIC ACIDS

### ADMINISTRATION & DOSAGE

Changes in cerebral blood flow and metabolism following intraarterial or local administration of nimodipine, before and after experimental subarachnoid hemorrhage in baboons. Sahlin C, et al. **Stroke** 1986 Mar-Apr;17(2):220-4

### ADVERSE EFFECTS

[Lithium poisoning. 2 unpublished interactions: acetazolamide and niflumic acid] Gay C, et al. **Encephale** 1985 Nov-Dec;11(6):261-2 (Eng. Abstr.) (Fre)

### ANALYSIS

Determination of nimodipine by gas chromatography using electron-capture detection; external factors influencing nimodipine concentrations during intravenous administration. Jakobsen P, et al. **J Chromatogr** 1986 Jan 24;374(2):383-7

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NICOTINIC AGENTS see GANGLIONIC STIMULANTS

NICOTINIC RECEPTORS see RECEPTORS, NICOTINIC

NICOTINYL ALCOHOL see under PYRIDINES

NICOUMALONE see ACENOCOUMAROL

## NICTITATING MEMBRANE

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Reserpine-resistant responses to nerve stimulation in the cat nictitating membrane involve the release of newly synthesized noradrenaline. Duval N, et al. **Eur J Pharmacol** 1986 Mar 11;122(1):93-101

NIDATION see OVUM IMPLANTATION

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## NIEMANN-PICK DISEASE

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Ocular involvement in Niemann-Pick disease type B. Lipson MH, et al. **J Pediatr** 1986 Apr;108(4):582-4

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Biochemical and ultrastructural findings in a lymphoid cell line from Niemann-Pick disease type A. Levade T, et al. **Biol Cell** 1985;55(1-2):143-6

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## NIFEDIPINE

### ADMINISTRATION & DOSAGE

Sustained release of nifedipine from granules. Kohri N, et al. **J Pharm Sci** 1986 Jan;75(1):57-61

[Nifedipine with a long-term effect in older hypertensive patients. A controlled clinical trial] Schnapp P, et al. **Cas Lek Cesk** 1986 Mar 28;125(13):402-5 (Eng. Abstr.) (Slo)

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**NIFENALOL** see under **ETHANOLAMINES**

**NIFLUMIC ACID** see under **NICOTINIC ACIDS**

**NIFURAZOLIDONE** see **FURAZOLIDONE**

**NIGERICIN** see under **ANTIBIOTICS**

**NIGHT TERRORS** see **SLEEP DISORDERS**

**NIGHTMARES** see **DREAMS**

**NIH CONSENSUS DEVELOPMENT** see **NATIONAL INSTITUTES OF HEALTH (U.S.)**

**NIMORAZOLE** see under **NITROIMIDAZOLES**

**NINHYDRIN** see under **INDENES**

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NEWBORN INTENSIVE CARE UNITS see INTENSIVE CARE UNITS, NEONATAL

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## NEWCASTLE DISEASE VIRUS

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## NIALAMIDE

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## NICOTINAMIDE

### ANALOGS & DERIVATIVES

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Improved delivery through biological membranes XX: Nicotinamide----dihydronicotinamide based ester-linked redox carrier systems. Bodor N, et al. **J Pharm Sci** 1986 Jan;75(1):29-35

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NICOTINAMIDE-ADENINE DINUCLEOTIDE see NAD

NICOTINAMIDE-ADENINE DINUCLEOTIDE PHOSPHATE see NADP

## NICOTINAMIDE MONONUCLEOTIDE

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NICOTINIC AGENTS see GANGLIONIC STIMULANTS

NICOTINIC RECEPTORS see RECEPTORS, NICOTINIC

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NICOUMALONE see ACENOCOUMAROL

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NIDATION see OVUM IMPLANTATION

NIDDM see DIABETES MELLITUS, NON-INSULIN-DEPENDENT

## NIEMANN-PICK DISEASE

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## NIFEDIPINE

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**NIFURAZOLIDONE** see **FURAZOLIDONE**

**NIGERICIN** see under **ANTIBIOTICS**

**NIGHT TERRORS** see **SLEEP DISORDERS**

**NIGHTMARES** see **DREAMS**

**NIH CONSENSUS DEVELOPMENT** see **NATIONAL INSTITUTES OF HEALTH (U.S.)**

**NIMORAZOLE** see under **NITROIMIDAZOLES**

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**NITROBLUE TETRAZOLIUM** see under **TETRAZOLIUM SALTS**

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**NITROGEN MUSTARD** see **MECHLORETHAMINE**

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**NITROGLYCERIN** see **GLYCERYL TRINITRATE**

## NITROIMIDAZOLES

### THERAPEUTIC USE

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**NITROMIFENE** see under **PYRROLIDINES**

**NITROPARAFFINS** see under **ALKANES**

**NITROPHENYL PHOSPHATASE** see under **PHOSPHOMONOESTERASES**

**NITROPHENYLGALACTOSIDE** see under **GLYCOSIDES**

**NITROPRUSSIDE** see under **FERRICYANIDES**

**4-NITROQUINOLINE-1-OXIDE** see under **NITROQUINOLINES**

## NITROQUINOLINES

### PHARMACODYNAMICS

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### TOXICITY

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### METABOLISM

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**NITROSODIETHYLAMINE** see **DIETHYLNITROSAMINE**

**NITROSODIMETHYLAMINE** see **DIMETHYLNITROSAMINE**

**NITROSOETHYLUREA** see **ETHYLNITROSOUREA**

**NITROSOMETHYLNITROGUANIDINE** see **METHYLNITRONITROSOGUANIDINE**

**NITROSOMETHYLUREA** see **METHYLNITROSOUREA**

**NITROSOMETHYLURETHANE** see under **URETHANE**

**NITROSONITROMETHYLGUANIDINE** see **METHYLNITRONITROSOGUANIDINE**

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**ORNIDAZOLE** see under **NITROIMIDAZOLES**

**ORNIPRESSIN** see under **VASOPRESSINS**

## ORNITHINE

### ANALOGS & DERIVATIVES

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**OSTEOLYSIS** see under **BONE RESORPTION**

**OSTEOLYSIS, ESSENTIAL** see under **BONE RESORPTION**

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### THERAPY

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**OSTEOPHYTOSIS, SPINAL** see **SPINAL OSTEOPHYTOSIS**

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### BLOOD

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**OUTPATIENTS** see under **PATIENTS**

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**HYPOXANTHINE-GUANINE PHOSPHORIBOSYLTRANSFERASE** see **HYPOXANTHINE PHOSPHORIBOSYLTRANSFERASE**

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**ALKALOIDS**

nder **OXAZOLES**

**INFECTIOUS BOVINE VIRUS**

## IBUPROFEN

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IDIOPATHIC HYPERTROPHIC SUBAORTIC STENOSIS see CARDIOMYOPATHY, HYPERTROPHIC

IDIOPATHIC HYPERTROPHIC SUBVALVULAR STENOSIS see CARDIOMYOPATHY, HYPERTROPHIC

IDIOTYPES, IMMUNOGLOBULIN see IMMUNOGLOBULIN IDIOTYPES

IDIOTYPIC ANTIBODIES see IMMUNOGLOBULIN IDIOTYPES

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**IMMUNOGLOBULINS, GAMMA CHAIN** see under **IMMUNOGLOBULINS, HEAVY CHAIN**

## IMMUNOGLOBULINS, HEAVY CHAIN

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**INFORMATION DISPLAY** see **DATA DISPLAY**

**INFORMATION DISSEMINATION** see **INFORMATION SERVICES**

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**LIBIDO**

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INTERFERON, BETA see INTERFERON TYPE I

INTERFERON, FIBROBLAST see INTERFERON TYPE I

INTERFERON, GAMMA see INTERFERON TYPE II

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**INTESTINAL PSEUDO-OBSTRUCTION, IDIOPATHIC** see under **INTESTINAL OBSTRUCTION**

## INTESTINAL SECRETIONS

see related
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Tube cecostomy with cecal extraperitonealization in the management of obstructing left sided carcinoma of the large intestine. Goldstein SD, et al. **Surg Gynecol Obstet** 1986 Apr;162(4):379-80

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## INTESTINAL POLYPS

### DIAGNOSIS

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[Polyps of the colon and rectum] Gallegos González L, et al. **Rev Gastroenterol Mex** 1985 Oct-Dec;50(4):269-72 (Eng. Abstr.) **(Spa)**

### PATHOLOGY

Increase of the mitotic activity of colonic mucosa in patients with multiple non-familial adenomatous polyps. Bandettini L, et al. **Ital J Surg Sci** 1985;15(4):341-5

### RADIOGRAPHY

A comparison between barium enema and a modified double-contrast technique as a routine examination of the colon with regard to the diagnosis of colonic polyps. Langfeldt S, et al. **Rontgenblatter** 1986 Feb;39(2):33-5

### SURGERY

The 'safety snare'--a ligature-placing snare to prevent haemorrhage after transection of large pedunculated polyps. Pontecorvo C, et al. **Endoscopy** 1986 Mar; 18(2):55-6

[Endoscopic excision of malignant colorectal polyps. Study of a series of 82 cases] Barthélémy C, et al. **Ann Gastroenterol Hepatol (Paris)** 1986 Jan-Feb;22(1):5-8 (Eng. Abstr.) **(Fre)**

**INTESTINAL PSEUDO-OBSTRUCTION, IDIOPATHIC**
see under **INTESTINAL OBSTRUCTION**

## INTESTINAL SECRETIONS

see related
**GASTROINTESTINAL HORMONES**

## INTESTINE, LARGE

[Skin metastasis of an adenocarcinoma of the large intestine] Korotkiĭ NG, et al. **Vestn Dermatol Venerol** 1986;(1):48-50 (Eng. Abstr.) **(Rus)**

[Results of the endoscopic observation of patients operated on for cancer of the large intestine] Petrov VP, et al. **Vopr Onkol** 1986;32(2):76-8 (Eng. Abstr.) **(Rus)**

BLOOD SUPPLY

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Anatomic distribution of encysted cyathostome larvae in the horse. Reinemeyer CR, et al. **Am J Vet Res** 1986 Mar; 47(3):510-3

PATHOLOGY

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**19-IODOCHOLESTEROL** see under **CHOLESTEROL**

## IODODEOXYURIDINE

**IODODEOXYURIDINE** see **IDOXURIDINE**

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**ISOPROPANOL** see **ALCOHOL, PROPYL**

**ISOPROPYL ALCOHOL** see **ALCOHOL, PROPYL**

**ISOPROPYLARTERENOL** see **ISOPROTERENOL**

**N-ISOPROPYLATROPINE** see under **ATROPINE DERIVATIVES**

**2-ISOPROPYLMALATE SYNTHASE** see under **KETOACID-LYASES**

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**LACQUER** see under **PAINT**

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see related **TEARS**

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see related
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**LACTATION, PROLONGED** see under **LACTATION**

**LACTIC CYTOCHROME REDUCTASE** see **LACTATE DEHYDROGENASE**

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### ENZYMOLOGY

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## LACTOBACILLUS CASEI

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**LACTOFERRIN** see under **LACTOGLOBULINS**

**LACTOGEN HORMONE, PLACENTAL** see **PLACENTAL LACTOGEN**

**LACTOGENIC HORMONE, PITUITARY** see **PROLACTIN**

## LACTOGLOBULINS

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### PHARMACODYNAMICS

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### BLOOD

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### PHARMACODYNAMICS

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### IMMUNOLOGY

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**LACTOSE FACTORS** see under **PLASMIDS**

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### METABOLISM

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### PATHOLOGY

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**LACTOSYLCERAMIDES** see under **GLYCOSPHINGOLIPIDS**

**LACTOYL GLUTATHIONE LYASE** see under **LYASES**

**LACTULOSE** see under **DISACCHARIDES**

**LAFORA DISEASE** see **EPILEPSY, MYOCLONUS**

**LAGOMORPHA** see under **MAMMALS**

**LAGOTHRIX** see **CEBIDAE**

**LAKI-LORAND FACTOR** see **FACTOR XIII**

**LAMBDA PHAGE** see **PHAGE LAMBDA**

**LAMBLIA** see **GIARDIA**

**LAMBLIASIS** see **GIARDIASIS**

## LAMENESS, ANIMAL

### ETIOLOGY

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**LAMINA ELASTICA POSTERIOR** see **DESCEMET'S MEMBRANE**

**LAMINAR AIR-FLOW AREAS** see **ENVIRONMENT, CONTROLLED**

**LAMINARIA** see under **SEAWEED**

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## LAMININ

### ANALYSIS

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LAMPREYS see under CYCLOSTOMES

## LANATOSIDES

### PHARMACODYNAMICS

[Histoenzymatic studies of the kidneys of albino rats after experimental administration of serpasil and deslanoside] Zarebska A. **Patol Pol** 1985 Apr-Jun;36(2):200-7 (Eng. Abstr.) (Pol)

LANGAT VIRUS see under FLAVIVIRUSES

## LANGERHANS CELLS

### ENZYMOLOGY

Distribution of ATPase-positive Langerhans cells in normal adult human skin. Chen H, et al. **Br J Dermatol** 1985 Dec; 113(6):707-11

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LANGUAGE COMPREHENSION TESTS see LANGUAGE TESTS

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LANGUAGE TRAINING see LANGUAGE THERAPY

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LANUGO see HAIR

LAPAROSCOPY see PERITONEOSCOPY

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**LACTOGEN HORMONE, PLACENTAL** see **PLACENTAL LACTOGEN**

**LACTOGENIC HORMONE, PITUITARY** see **PROLACTIN**

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### ANALYSIS

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**LACTOYL GLUTATHIONE LYASE** see under **LYASES**

**LACTULOSE** see under **DISACCHARIDES**

**LAFORA DISEASE** see **EPILEPSY, MYOCLONUS**

**LAGOMORPHA** see under **MAMMALS**

**LAGOTHRIX** see **CEBIDAE**

**LAKI-LORAND FACTOR** see **FACTOR XIII**

**LAMBDA PHAGE** see **PHAGE LAMBDA**

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**LAMINA ELASTICA POSTERIOR** see **DESCEMET'S MEMBRANE**

**LAMINAR AIR-FLOW AREAS** see **ENVIRONMENT, CONTROLLED**

**LAMINARIA** see under **SEAWEED**

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LAMPREYS see under CYCLOSTOMES

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## LEISHMANIA DONOVANI

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**LEUKEMIA, MYELOGENOUS, CHRONIC** see **LEUKEMIA, MYELOCYTIC**

**LEUKEMIA, MYELOMONOCYTIC** see **LEUKEMIA, MYELOCYTIC**

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**LEUKEMIA VIRUS, AVIAN** see **AVIAN LEUKOSIS VIRUSES**

**LEUKEMIA VIRUS, HUMAN T-CELL** see **HUMAN T-CELL LEUKEMIA VIRUS**

**LEUKEMIC RETICULOENDOTHELIOSIS** see **LEUKEMIA, HAIRY CELL**

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**LEUKOTRIENE B4** see **LEUKOTRIENES B**

**LEUKOTRIENE C1** see **SRS-A**

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**LEUKOTRIENES D** see **SRS-A**

**LEUKOVIRUS PROTEINS** see **RETROVIRIDAE PROTEINS**

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**LEVONOREPINEPHRINE** see **NOREPINEPHRINE**

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**LH RELEASING HORMONE** see **LH-FSH RELEASING HORMONE**

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**LINDANE** see **BENZENE HEXACHLORIDE**

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**LUTZOMYIA** see **PSYCHODIDAE**

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**LYMPH NODE SYNDROME, MUCOCUTANEOUS** see **MUCOCUTANEOUS LYMPH NODE SYNDROME**

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**LYMPHADENITIS, TUBERCULOUS** see **TUBERCULOSIS, LYMPH NODE**

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### ETIOLOGY

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**LYMPHANGIECTASIS, INTESTINAL** see under **PROTEIN-LOSING ENTEROPATHIES**

**LYMPHANGIOENDOTHELIOMA** see **LYMPHANGIOMA**

**LYMPHANGIOENDOTHELIOMA, MALIGNANT** see **LYMPHANGIOSARCOMA**

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**LYMPHAPHERESIS** see **LEUKAPHERESIS**

## LYMPHATIC DISEASES

see related
**CHYLOTHORAX**
**LEUKEMIA, LYMPHOBLASTIC**
**LEUKEMIA, LYMPHOCYTIC**
**LYMPHOMA**

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## LYMPHEDEMA

### COMPLICATIONS

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LYMPHOCYTAPHERESIS see LEUKAPHERESIS

LYMPHOCYTE ACTIVATING FACTOR see INTERLEUKIN 1

LYMPHOCYTE ACTIVATION see LYMPHOCYTE TRANSFORMATION

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LYMPHOCYTE CULTURE TEST, MIXED see LEUKOCYTE CULTURE TEST, MIXED

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**LYMPHOCYTE ACTIVATING FACTOR** see **INTERLEUKIN 1**

**LYMPHOCYTE ACTIVATION** see **LYMPHOCYTE TRANSFORMATION**

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2-MERCAPTOETHANESULFONATE see under MERCAPTOETHANOL

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METHAGENS see METHANOGENS

METHALAMIC ACID see IOTHALAMIC ACID

METHAMINODIAZEPOXIDE see CHLORDIAZEPOXIDE

## METHAMPHETAMINE

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## METHANOGENS

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### TOXICITY

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**METHIONINE ENKEPHALIN** see **ENKEPHALIN, METHIONINE**

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**METHIOTHEPIN** see under **DIBENZOTHIEPINS**

**METHISAZONE** see under **THIOSEMICARBAZONES**

**METHODS** see under **SCIENCE**

**METHOFLURANUM** see **METHOXYFLURANE**

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**METHOMYL** see under **INSECTICIDES, CARBAMATE**

**METHOPRENE** see under **JUVENILE HORMONES**

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### PHARMACODYNAMICS

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## METHOXYFLURANE

### METABOLISM

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**3-METHOXY-4-HYDROXYPHENYLETHANOL** see under **CATECHOLS**

**METHOXYHYDROXYPHENYLGLYCOL** see under **GLYCOLS**

**8-METHOXYPSORALEN** see **METHOXSALEN**

**METHOXYTRYPTAMINE** see under **TRYPTAMINES**

**METHSUXIMIDE** see under **SUCCINIMIDES**

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METHYL GREEN see under ROSANILINE DYES

METHYL MERCAPTOPHOS see under INSECTICIDES, ORGANOTHIOPHOSPHATE

METHYL MERCURY COMPOUNDS see METHYLMERCURY COMPOUNDS

METHYL MESILATE see METHYL METHANESULFONATE

## METHYL METHANESULFONATE

PHARMACODYNAMICS

DNA repair and sensitivity of mouse embryo fibroblasts to methyl methanesulphonate and N-methyl-N'-nitro-N-nitrosoguanidine. Anuszewska E, et al. **Acta Biochim Pol** 1985;32(4):295–304

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METHYL PARATHION see under PARATHION

METHYL VIOLOGEN see PARAQUAT

## METHYLAMINES

PHARMACODYNAMICS

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ANALOGS & DERIVATIVES

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PHARMACODYNAMICS

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TOXICITY

The time course of effects of cadmium and 3-methylcholanthrene on activities of enzymes of xenobiotic metabolism and metallothionein levels in the plaice, Pleuronectes platessa. George SG, et al. **Comp Biochem Physiol [C]** 1986;83(1):37–44

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METHYLDIPHENYLHYDRAMINE see ORPHENADRINE

## METHYLDOPA

ANALOGS & DERIVATIVES

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METHYLDOPAHYDRAZINE see CARBIDOPA

METHYLDOPATE see METHYLDOPA

## METHYLENE BLUE

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METHYLENE CHLORIDE see under HYDROCARBONS, CHLORINATED

METHYLENEBIS(CHLOROANILINE) see under BENZHYDRYL COMPOUNDS

3,4-METHYLENEDIOXYAMPHETAMINE see under AMPHETAMINES

METHYLENETETRAHYDROFOLATE DEHYDROGENASE see under OXIDOREDUCTASES

METHYLERGOBASIN see METHYLERGONOVINE

METHYLERGOMETRIN see METHYLERGONOVINE

## METHYLERGONOVINE

DIAGNOSTIC USE

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METHYLGALACTOSIDES see under METHYLGLYCOSIDES

METHYLGLUCOSIDES see under METHYLGLYCOSIDES

METHYLGLYCINE see under GLYCINE

## METHYLGLYCOSIDES

ANALYSIS

Characterization of a diphosphonopentaosylceramide containing 3-O-methylgalactose from the skin of Aplysia kurodai (sea hare). Araki S, et al. **J Biol Chem** 1986 Apr 15;261(11):5138–44

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METHYLGLYOXAL BIS(GUANYLHYDRAZONE) see MITOGUAZONE

METHYLGUANIDINE see under GUANIDINES

METHYLHISTIDINES see under HISTIDINE

## METHYLHYDRAZINES

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METHYLHYDROXYPROGESTERONE see MEDROXYPROGESTERONE

1-METHYL-3-ISOBUTYLXANTHINE see under THEOPHYLLINE

METHYLMALONIC ACID see under MALONATES

METHYLMALONYL COA MUTASE see under ISOMERASES

METHYLMANNOSIDES see under METHYLGLYCOSIDES

## METHYLMERCURY COMPOUNDS

ANALYSIS

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TOXICITY

Acid phosphatase activity in the intestine and caeca of bluegill, exposed to methyl mercuric chloride. Hossain A, et al. **Bull Environ Contam Toxicol** 1986 Mar;36(3):460–7

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METHYLMESYLATE see METHYL METHANESULFONATE

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## MEZLOCILLIN

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MICE, LABORATORY see MICE

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**MILK EJECTION** see under **LACTATION**

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**MILK SICKNESS** see **PLANT POISONING**

**MILLET** see under **CEREALS**

**MILROY'S DISEASE** see **LYMPHEDEMA**

**MIMAE** see **ACINETOBACTER**

**MIMAE INFECTIONS** see **ACINETOBACTER INFECTIONS**

**MIMETIC MUSCLES** see **FACIAL MUSCLES**

**MIMOSINE** see under **PYRIDONES**

**MINAMATA DISEASE** see **MERCURY POISONING**

## MINERAL OIL

ANALYSIS

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A method for isolation of milk fat globules. Patton S, et al. **Lipids** 1986 Feb;21(2):170-4

**MILK SICKNESS** see **PLANT POISONING**

**MILLET** see under **CEREALS**

**MILROY'S DISEASE** see **LYMPHEDEMA**

**MIMAE** see **ACINETOBACTER**

**MIMAE INFECTIONS** see **ACINETOBACTER INFECTIONS**

**MIMETIC MUSCLES** see **FACIAL MUSCLES**

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**MINAMATA DISEASE** see **MERCURY POISONING**

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[Photometric method of determining the admixtures VNII NP-117 and 117/t in the air of mines] Gorskaia RV, et al. **Gig Tr Prof Zabol** 1986 Jan;(1):39-40 (Rus)

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Lectins as surrogates for the water of Castalia: for the anatomist, pathologist, or both. Damjanov I. **Ultrastruct Pathol** 1986;10(1):iii-vii

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## MINERALOCORTICOIDS

ANTAGONISTS & INHIBITORS

Evidence for the secretion of an antimineralocorticoid in congenital adrenal hyperplasia. Kuhnle U, et al. **J Clin Endocrinol Metab** 1986 May;62(5):934-40

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**MONOACYLGLYCEROL LIPASES** see under **CARBOXYLIC ESTER HYDROLASES**

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**MUCOPOLYSACCHARIDOSIS 3** see under **MUCOPOLYSACCHARIDOSIS**

**MUCOPOLYSACCHARIDOSIS 5** see under **MUCOPOLYSACCHARIDOSIS**

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## MULTI-INSTITUTIONAL SYSTEMS

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**2-NAPHTHYLAMINE** see under **NAPHTHALENES**

**1-NAPHTHYLISOTHIOCYANATE** see under **THIOCYANATES**

**NAPHTHYLVINYLPYRIDINE** see under **PYRIDINES**

## NAPHTHYRIDINES

NAPHTHYRIDINES

### ADVERSE EFFECTS

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NARCOTIC LAWS see LEGISLATION, DRUG

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NARKE see TORPEDO

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**NARCOTIC LAWS** see **LEGISLATION, DRUG**

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**ANALGESICS, ADDICTIVE**
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**NARKE** see **TORPEDO**

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[Human anisakiasis: 5 cases in northern France] Mudry J, et al. **Gastroenterol Clin Biol** 1986 Jan;10(1):83–7 (Eng. Abstr.) **(Fre)**

[Acute abdomen caused by Anisakis larvae (letter)] Mravak S, et al. **Dtsch Med Wochenschr** 1986 Apr 18;111(16):642 **(Ger)**

METABOLISM

Anisakis simplex: uncoupling of oxidative phosphorylation in the muscle mitochondria of infected fish. Boczon K, et al. **Exp Parasitol** 1986 Apr;61(2):270–9

Functional characterization of mast cells generated in vitro from the mesenteric lymph node of rats infected with Nippostrongylus brasiliensis. Shanahan F, et al. **Immunology** 1986 Mar;57(3):455–9

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Evaluation of three formulations of fenbendazole (10% suspension, 0.5% pellets, and 20% premix) against nematode infections in cattle. Blagburn BL, et al. **Am J Vet Res** 1986 Mar;47(3):534–6

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Comparative susceptibility of Romanov and Lacaune sheep to gastrointestinal nematodes and small lungworms. Gruner L, et al. **Vet Parasitol** 1986 Jan;19(1–2):85–93

NEMATOMORPHA INFECTIONS see under HELMINTHIASIS

NEOCARZINOSTATIN see under ANTIBIOTICS, ANTINEOPLASTIC

## NEODYMIUM

THERAPEUTIC USE

Laser-beam lithotripsy for bile duct stone via percutaneous-transhepatic cholangioscopy. Zhang QL, et al. **Chin Med J [Engl]** 1985 Sep;98(9):638–42

Photocoagulation of the endometrium with the Nd:YAG laser for the treatment of menorrhagia. A report of ten cases. Lomano JM. **J Reprod Med** 1986 Feb;31(2):148–50

Three thousand YAG lasers in posterior capsulotomies: an analysis of complications and comparison to polishing and surgical discissions. Durham DG, et al. **Trans Am Ophthalmol Soc** 1985;83:218–35

## NEOMYCIN

ADMINISTRATION & DOSAGE

Oral neomycin and erythromycin compared with single-dose systemic metronidazole and ceftriaxone prophylaxis in elective colorectal surgery. Weaver M, et al. **Am J Surg** 1986 Apr;151(4):437–42

ADVERSE EFFECTS

*Diffuse cutaneous hypersensitivity reaction after* dexamethasone/polymyxin B/neomycin combination eyedrops. Baldinger J, et al. **Ann Ophthalmol** 1986 Mar; 18(3):95–6

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NEOMYCIN A see NEOMYCIN

NEONATAL CALF DIARRHEA VIRUS see ROTAVIRUSES

NEONATAL IMMUNITY, MATERNALLY-ACQUIRED see IMMUNITY, MATERNALLY-ACQUIRED

NEONATAL INTENSIVE CARE UNITS see INTENSIVE CARE UNITS, NEONATAL

## NEONATOLOGY

see related
INFANT, NEWBORN

[Umbilical and ocular infections due to environmental contamination by Pseudomonas aeruginosa and Staphylococcus aureus. An outbreak at the neonatal and obstetric sections of the Locri Community Hospital. Environmental microbiological research and relative results] Poerio N, et al. **G Batteriol Virol Immunol** 1984 Jul-Dec;77(7–12):208–14 (Eng. Abstr.) **(Ita)**

NEOPLASM ANTIBODIES see ANTIBODIES, NEOPLASM

NEOPLASM ANTIGENS see ANTIGENS, NEOPLASM

NEOPLASM ANTIGENS, VIRAL see ANTIGENS, VIRAL, TUMOR

## NEOPLASM CIRCULATING CELLS

Cardiopulmonary bypass in patients with malignant renal neoplasms. Wilkinson CJ, et al. **Br J Anaesth** 1986 Apr; 58(4):461–5

Inhibition of intravascular mouse melanoma dissemination by recombinant human interferon alpha A/D. Yokoyama T, et al. **Jpn J Cancer Res** 1986 Jan;77(1):80–4

The mechanical spread of viable tumor during surgery. Atiyah RA, et al. **Otolaryngol Head Neck Surg** 1986 Mar; 94(3):278–81

## NEOPLASM METASTASIS

Prevention of metastatic spread by postoperative immunotherapy with virally modified autologous tumor cells. I. Parameters for optimal therapeutic effects. Heicappell R, et al. **Int J Cancer** 1986 Apr 15;37(4):569–77

The surgical treatment of metastatic tumours of the lumbar spine. Solini A, et al. **Ital J Orthop Traumatol** 1985 Dec; 11(4):427–42

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**NATURAL KILLER CELLS** see **KILLER CELLS, NATURAL**

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see related
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**NBD CHLORIDE** see under **OXADIAZOLES**

**NEAMIN** see **NEOMYCIN**

**NEBRAMYCIN** see under **ANTIBIOTICS**

**NEBRAMYCIN FACTOR 6** see **TOBRAMYCIN**

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**NECK NEOPLASMS** see **HEAD AND NECK NEOPLASMS**

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**NEGATIVE REINFORCEMENT** see **REINFORCEMENT (PSYCHOLOGY)**

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## NEISSERIA MENINGITIDIS

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**NELSON SYNDROME** see under **PITUITARY NEOPLASMS**

**NEMATOCIDES** see **ANTINEMATODAL AGENTS**

## NEMATODA

#### ISOLATION & PURIFICATION

Comparison of two techniques for quantitation of encysted cyathostome larvae in the horse. Reinemeyer CR, et al. **Am J Vet Res** 1986 Mar;47(3):507–9

Anatomic distribution of encysted cyathostome larvae in the horse. Reinemeyer CR, et al. **Am J Vet Res** 1986 Mar; 47(3):510–3

#### PATHOGENICITY

Comparative susceptibility of Romanov and Lacaune sheep to gastrointestinal nematodes and small lungworms. Gruner L, et al. **Vet Parasitol** 1986 Jan;19(1–2):85–93

## NEMATODE INFECTIONS

#### DIAGNOSIS

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[Acute abdomen caused by Anisakis larvae (letter)] Mravak S, et al. **Dtsch Med Wochenschr** 1986 Apr 18;111(16):642 **(Ger)**

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Anisakis simplex: uncoupling of oxidative phosphorylation in the muscle mitochondria of infected fish. Boczon K, et al. **Exp Parasitol** 1986 Apr;61(2):270–9

Functional characterization of mast cells generated in vitro from the mesenteric lymph node of rats infected with Nippostrongylus brasiliensis. Shanahan F, et al. **Immunology** 1986 Mar;57(3):455–9

#### VETERINARY

Evaluation of three formulations of fenbendazole (10% suspension, 0.5% pellets, and 20% premix) against nematode infections in cattle. Blagburn BL, et al. **Am J Vet Res** 1986 Mar;47(3):534–6

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**NEMATOMORPHA INFECTIONS** see under **HELMINTHIASIS**

**NEOCARZINOSTATIN** see under **ANTIBIOTICS, ANTINEOPLASTIC**

## NEODYMIUM

#### THERAPEUTIC USE

Laser-beam lithotripsy for bile duct stone via percutaneous-transhepatic cholangioscopy. Zhang QL, et al. **Chin Med J [Engl]** 1985 Sep;98(9):638–42

Photocoagulation of the endometrium with the Nd:YAG laser for the treatment of menorrhagia. A report of ten cases. Lomano JM. **J Reprod Med** 1986 Feb;31(2):148–50

Three thousand YAG lasers in posterior capsulotomies: an analysis of complications and comparison to polishing and surgical discissions. Durham DG, et al. **Trans Am Ophthalmol Soc** 1985;83:218–35

## NEOMYCIN

#### ADMINISTRATION & DOSAGE

Oral neomycin and erythromycin compared with single-dose systemic metronidazole and ceftriaxone prophylaxis in elective colorectal surgery. Weaver M, et al. **Am J Surg** 1986 Apr;151(4):437–42

#### ADVERSE EFFECTS

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**NEOMYCIN A** see **NEOMYCIN**

**NEONATAL CALF DIARRHEA VIRUS** see **ROTAVIRUSES**

**NEONATAL IMMUNITY, MATERNALLY-ACQUIRED** see **IMMUNITY, MATERNALLY-ACQUIRED**

**NEONATAL INTENSIVE CARE UNITS** see **INTENSIVE CARE UNITS, NEONATAL**

## NEONATOLOGY

see related
INFANT, NEWBORN

[Umbilical and ocular infections due to environmental contamination by Pseudomonas aeruginosa and Staphylococcus aureus. An outbreak at the neonatal and obstetric sections of the Locri Community Hospital. Environmental microbiological research and relative results] Poerio N, et al. **G Batteriol Virol Immunol** 1984 Jul-Dec;77(7–12):208–14 (Eng. Abstr.) **(Ita)**

**NEOPLASM ANTIBODIES** see **ANTIBODIES, NEOPLASM**

**NEOPLASM ANTIGENS** see **ANTIGENS, NEOPLASM**

**NEOPLASM ANTIGENS, VIRAL** see **ANTIGENS, VIRAL, TUMOR**

## NEOPLASM CIRCULATING CELLS

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Inhibition of intravascular mouse melanoma dissemination by recombinant human interferon alpha A/D. Yokoyama T, et al. **Jpn J Cancer Res** 1986 Jan;77(1):80–4

The mechanical spread of viable tumor during surgery. Atiyah RA, et al. **Otolaryngol Head Neck Surg** 1986 Mar; 94(3):278–81

## NEOPLASM METASTASIS

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see related
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## PLATELET ACTIVATING FACTOR

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**PLATELET STORAGE POOL DEFICIENCY** see under **BLOOD PLATELET DISORDERS**

**PLATELETPHERESIS** see under **BLOOD COMPONENT REMOVAL**

**PLATELETS** see **BLOOD PLATELETS**

**PLATINUM DIAMMINODICHLORIDE** see **CISPLATIN**

## PLATYBASIA

see related
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**PLEURAL RUB** see **RESPIRATORY SOUN**

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**PLEURODELES** see under **SALAMANDRIDAE**

**PLEURODYNIA VIRUS** see **COXSACKIE B VIRUSES**

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**PMSG** see **GONADOTROPINS, EQUINE**

**PNEUMATIC SUITS** see **G SUITS**

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**POLYANGIUM** see **MYXOBACTERALES**

**POLYARTERITIS NODOSA** see **PERIARTERITIS NODOSA**

**POLYCARBOXYLATE CEMENT** see under **DENTAL CEMENTS**

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**PARA-CHLOROPHENYLALANINE** see **P-CHLOROPHENYLALANINE**

**PARA-DIHYDROXYBENZENES** see **HYDROQUINONES**

**PARA-HYDROXYBENZOIC ACIDS** see **PARABENS**

**PARA-OCTOPAMINE** see **NORSYNEPHRINE**

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**PARA-INFLUENZA VIRUS TYPE 3** see under **PARA-INFLUENZA VIRUSES**

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**PARAMAGNETIC RESONANCE** see **ELECTRON RESONANCE**

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PARAMEDICS see ALLIED HEALTH PERSONNEL

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see related
SEX OFFENSES

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COMPLICATIONS

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IMMUNOLOGY

Biclonal gammopathy (IgG kappa and IgG lambda) in a patient with non-Hodgkin's lymphoma. Guarner J, et al. **Arch Pathol Lab Med** 1986 May;110(5):445-8

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**PENTOSE SHUNT** see **PENTOSEPHOSPHATE**

PATHWAY

## PENTOSEPHOSPHATE PATHWAY

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## PEPTIC ULCER

see related
GASTRECTOMY
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see related
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**PERIPHLEBITIS** see **PHLEBITIS**

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**PERMEABILITY, CELL MEMBRANE** see **CELL MEMBRANE PERMEABILITY**

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### METABOLISM

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**PEROXIDASE-ANTIPEROXIDASE COMPLEX TECHNIC** see **IMMUNOENZYME TECHNICS**

**PEROXIDASE-LABELED ANTIBODY TECHNIC** see **IMMUNOENZYME TECHNICS**

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**PEROXISOMES** see **MICROBODIES**

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## PHLEGMASIA ALBA DOLENS

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PHLEOMYCINS see under BLEOMYCINS

PHLORETIN GLUCOSIDASE see under GLUCOSIDASES

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PHOBIA, SCHOOL see PHOBIC DISORDERS

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see related
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**PHOSPHATIDYLINOSITOL PHOSPHATES** see **PHOSPHOINOSITIDES**

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**PIPOTHIAZINE** see under **PHENOTHIAZINE TRANQUILIZERS**

**PIPOTHIAZINE PALMITATE** see under **PHENOTHIAZINE TRANQUILIZERS**

**PIRACETAM** see under **PYRROLIDINONES**

**PIRIBEDIL** see under **PIPERAZINES**

**PIRINITRAMIDE** see under **ISONIPECOTIC ACIDS**

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see related NEUROPHYSINS

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**PROMEGESTONE** see under **NORPREGNADIENES**

**PROMETRYNE** see under **HERBICIDES, TRIAZINE**

**PROMOTER (GENETICS)** see **PROMOTER REGIONS (GENETICS)**

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**PROPHAGE EXCISION** see **VIRUS ACTIVATION**

**PROPHAGE INDUCTION** see **VIRUS ACTIVATION**

**PROPHAGE INTEGRATION** see **LYSOGENY**

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**PROSTAGLANDIN A ANALOGS** see **PROSTAGLANDINS A, SYNTHETIC**

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**PROSTAGLANDIN ENDOPEROXIDE SYNTHETASE** see **PROSTAGLANDIN SYNTHASE**

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Increased susceptibility to lethal Candida infections in burned mice preinfected with Pseudomonas aeruginosa or pretreated with proteolytic enzymes. Neely AN, et al. **Infect Immun** 1986 Apr;52(1):200-4

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Oral ciprofloxacin therapy of infections due to Pseudomonas aeruginosa. Scully BE, et al. **Lancet** 1986 Apr 12; 1(8485):819-22

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Reticuloendothelial function following infusion of bacterial and non-bacterial particulates: relation to plasma fibronectin. Kiener JL, et al. **Curr Surg** 1986 Jan-Feb; 43(1):37-9

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### PHYSIOPATHOLOGY

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**PSEUDOPSYCHOSIS** see **FACTITIOUS DISORDERS**

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### IMMUNOLOGY

Dot-enzyme immunoassay for visual detection of antibodies to pseudorabies virus in swine serum. Afshar A, et al. **J Clin Microbiol** 1986 Mar;23(3):563-7

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### GENETICS

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**PSEUDOSCLEROSIS** see **HEPATOLENTICULAR DEGENERATION**

**PSEUDOTUBERCULOSIS** see **SARCOIDOSIS**

**PSEUDOTUBERCULOSIS, YERSINIA** see under **YERSINIA INFECTIONS**

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Pseudotumor cerebri--a complication of tetracycline treatment of acne. Pierog SH, et al. **J Adolesc Health Care** 1986 Mar;7(2):139-40

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Benign intracranial hypertension: visual loss and optic nerve sheath fenestration. Knight RS, et al. **J Neurol Neurosurg Psychiatry** 1986 Mar;49(3):243-50

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Activity of peripheral sympathetic efferent nerves in experimental subarachnoid haemorrhage. Part I: Observations at the time of intracranial hypertension. Pásztor E, et al. **Acta Neurochir (Wien)** 1986;79(2-4):125-31

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**PSEUDOURIDINE** see under **URIDINE**

## PSEUDOXANTHOMA ELASTICUM

### CHEMICALLY INDUCED

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Pseudoxanthoma elasticum and its urological implications. Heaton JP, et al. **J Urol** 1986 Apr;135(4):776-7

[A case of Grönblad-Strandberg syndrome with coronary artery disease] Tsuchioka Y, et al. **Nippon Naika Gakkai Zasshi** 1985 Dec;74(12):1739-44 **(Jpn)**

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## PTERYGIUM

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PTOSIS, EYELID see BLEPHAROPTOSIS

PTSD see STRESS DISORDERS, POST-TRAUMATIC

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## PUBERTY, PRECOCIOUS

see related
ADRENAL HYPERPLASIA, CONGENITAL

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**PULMONARY SEQUESTRATION** see **BRONCHOPULMONARY SEQUESTRATION**

**PULMONARY STENOSIS** see **PULMONARY VALVE STENOSIS**

**PULMONARY STRETCH RECEPTORS** see under **MECHANORECEPTORS**

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**PULP CHAMBER** see **DENTAL PULP CAVITY**

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see related
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### ADVERSE EFFECTS

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**PYRIDINONES** see **PYRIDONES**

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**PYRIDOXAL KINASE** see under **PHOSPHOTRANSFERASES, ATP**

## PYRIDOXAL PHOSPHATE

### ANALOGS & DERIVATIVES

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## PYRIMIDINES

### ADVERSE EFFECTS

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Metabolism and disposition of buspirone. Gammans RE, et al. **Am J Med** 1986 Mar 31;80(3B):41-51 (34 ref.)

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Influence of isaxonine on the target phenomenon, muscle fibre size and neuromuscular junction in the tenotomized and denervated gastrocnemius muscle of the rat. De Bleecker J, et al. **Acta Neuropathol (Berl)** 1986; 69(3-4):337-40
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**PYRITHIOXIN** see under **PYRIDINES**

**PYROCATECHOLS** see **CATECHOLS**

**PYRODIFENIUM BROMIDE** see under **PYRROLIDINES**

## PYROGALLOL

### PHARMACODYNAMICS

Stabilization of cytochrome P-450 in hepatocytes by free radical scavengers of different nature. Novikov K, et al. **Acta Physiol Pharmacol Bulg** 1985;11(3):61-9

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**PYROGLUTAMATE AMINOPEPTIDASE** see under **AMINOPEPTIDASES**

**PYROGLUTAMATE HYDROLASE** see under **AMIDOHYDROLASES**

**PYRONES** see under **PYRANS**

**PYRONINE** see under **XANTHENES**

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### GENETICS

Chromosomal mapping of enzyme loci in the domestic cat: GSR to C2, ADA and ITPA to A3, and LDHA-ACP2 to D1. Berman EJ, et al. **Cytogenet Cell Genet** 1986; 41(2):114-20

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### ANALYSIS

An assay for inorganic pyrophosphate in chondrocyte culture using anion-exchange high-performance liquid chromatography and radioactive orthophosphate labeling. Prins AP, et al. **Anal Biochem** 1986 Feb 1;152(2):370-5

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### PHARMACODYNAMICS

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### ADMINISTRATION & DOSAGE

Atropine and glycopyrrolate as ECT preanesthesia. Kramer BA, et al. **J Clin Psychiatry** 1986 Apr;47(4):199–200

### ADVERSE EFFECTS

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Effects of bepridil and diltiazem on [3H]nitrendipine binding to canine cardiac sarcolemma. Potentiation of pharmacological effects of nitrendipine by bepridil. Balwierczak JL, et al. **J Pharmacol Exp Ther** 1986 Apr; 237(1):40–8

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### ADMINISTRATION & DOSAGE

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**PYRROLIDONECARBOXYLIC ACID** see under **PYRROLIDINONES**

**PYRROLIDONES** see **PYRROLIDINONES**

**PYRROLINE CARBOXYLATE REDUCTASES** see under **AMINE OXIDOREDUCTASES**

## PYRROLIZIDINE ALKALOIDS

### CHEMICAL SYNTHESIS

[Anti-inflammatory 2,3-dihydro-1H-pyrrolizines. 3. Aminomethylation and arylthiolation of 6,7-diaryl-2,3-dihydro-1H-pyrrolizines] Dannhardt G, et al. **Arch Pharm (Weinheim)** 1986 Jan;319(1):65–9 (Eng. Abstr.) **(Ger)**

### METABOLISM

The formation of 6,7-dihydro-7-hydroxy-1-hydroxy-methyl-5H-pyrrolizine, a metabolite of pyrrolizidine alkaloids. Kedzierski B, et al. **Chem Biol Interact** 1986 Feb; 57(2):217–22

### PHARMACODYNAMICS

Monocrotaline pyrrole-induced cardiopulmonary toxicity is not altered by metergoline or ketanserin. Ganey PE, et al. **J Pharmacol Exp Ther** 1986 Apr;237(1):226–31

**PYRUVALDEHYDE** see under **ALDEHYDES**

## PYRUVATE CARBOXYLASE

### ISOLATION & PURIFICATION

Pyruvate carboxylase from Saccharomyces cerevisiae. Quaternary structure, effects of allosteric ligands and binding of avidin. Rohde M, et al. **Eur J Biochem** 1986 Apr 1;156(1):15–22

**PYRUVATE DECARBOXYLASE** see under **CARBOXY-LYASES**

## PYRUVATE DEHYDROGENASE COMPLEX

### ANTAGONISTS & INHIBITORS

[Characteristics of thiamine thiazolone diphosphate-induced inhibition of a pyruvate dehydrogenase complex in vitro and in intact mitochondria] Iakovleva GM, et al. **Biokhimiia** 1986 Jan;51(1):59–64 (Eng. Abstr.) **(Rus)**

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Pigeon liver phosphoprotein phosphatase: an effective activator of pyruvate dehydrogenase in tissue homogenates. Hinman LM, et al. **Arch Biochem Biophys** 1986 Apr; 246(1):381–90

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## PYRUVATE KINASE

### ANTAGONISTS & INHIBITORS

Identification of tyrosine and lysine peptides labeled by 5'-p-fluorosulfonylbenzoyl adenosine in the active site of pyruvate kinase. DeCamp DL, et al. **J Biol Chem** 1986 Apr 5;261(10):4499–503

### DEFICIENCY

Preleukemia manifested by hemolytic anemia with pyruvate-kinase deficiency. Kornberg A, et al. **Arch Intern Med** 1986 Apr;146(4):785–6

### METABOLISM

Pyruvate kinase of sea bass liver: interrelationship in regulating properties. Fideu MD, et al. **Comp Biochem Physiol [B]** 1986;83(3):685–9

The malate/aspartate shuttle and pyruvate kinase as targets involved in the stimulation of gluconeogenesis by phenylephrine. Leverve XM, et al. **Eur J Biochem** 1986 Mar 17;155(3):551–6

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Changes in activity of the regulatory glycolytic enzymes and of the pyruvate-dehydrogenase complex during the development of Xenopus laevis. Raddatz E, et al. **Exp Cell Biol** 1986;54(1):53–60

**PYRUVATE, PHOSPHATE DIKINASE** see under **PHOSPHOTRANSFERASES, ATP**

## PYRUVATES

Pyruvoyl-dependent histidine decarboxylase from Lactobacillus 30a. Covalent modifications of aspartic acid 191, lysine 155, and the pyruvoyl group. Huynh QK, et al. **J Biol Chem** 1986 Apr 5;261(10):4389–94

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Effects of pyruvate salts, pyruvic acid, and bicarbonate salts in preventing experimental oxalate urolithiasis in rats. Ogawa Y, et al. **J Urol** 1986 May;135(5):1057–60

### ANALYSIS

Identification of pyruvated monosaccharides in polysaccharides by gas-liquid chromatography mass spectrometry. Dudman WF, et al. **Carbohydr Res** 1986 Jan 1;145(2):175–91

### BLOOD

[Ability of the tissues to assimilate glucose and the pyruvate and lactate levels after intravenous glucose load in patients with peripheral facial paralysis] Klimek K, et al. **Neurol Neurochir Pol** 1985 Sep-Oct;19(5):395–400 (Eng. Abstr.) **(Pol)**

### METABOLISM

The exchange of Fe3+ between pyrophosphate and transferrin. Probing the nature of an intermediate complex with stopped flow kinetics, rapid multimixing, and electron paramagnetic resonance spectroscopy. Cowart RE, et al. **J Biol Chem** 1986 Apr 5;261(10):4607–14

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Secretion of pyruvate and lactate in pancreatic juice induced by acetazolamide or secretin. Kuroshima T, et al. **Am J Physiol** 1986 Apr;250(4 Pt 1):G398–404

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## Q FEVER

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### DIAGNOSIS

Immunoenzymatic test for Q-fever. Roges G, et al. **Diagn Microbiol Infect Dis** 1986 Feb;4(2):125–32

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## QUACKERY

see related
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**QUADRIGEMINAL PLATE** see **CORPORA QUADRIGEMINA**

## QUADRIPLEGIA

### DIAGNOSIS

The Quadriplegia Index of Function (QIF): sensitivity and reliability demonstrated in a study of thirty quadriplegic patients. Gresham GE, et al. **Paraplegia** 1986 Feb; 24(1):38–44

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Functional independence in quadriplegia: critical levels. Welch RD, et al. **Arch Phys Med Rehabil** 1986 Apr; 67(4):235–40

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### ANATOMY & HISTOLOGY

A sexually dimorphic nucleus in the quail preoptic area. Viglietti-Panzica C, et al. **Neurosci Lett** 1986 Feb 28; 64(2):129–34

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### METABOLISM

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Diurnal variations of sexual receptivity in the female Japanese quail (Coturnix coturnix japonica). Delville Y, et al. **Horm Behav** 1986 Mar;20(1):13–33
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**RATS, GUNN** see under **RATS, MUTANT STRAINS**

**RATS, INBRED ACI** see under **RATS, INBRED STRAINS**

**RATS, INBRED BB** see under **RATS, INBRED STRAINS**

**RATS, INBRED BN** see under **RATS, INBRED STRAINS**

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**REAGENT STRIPS** see under **INDICATORS AND REAGENTS**

**REAGENTS** see **INDICATORS AND REAGENTS**

**REAGINS** see under **ANTIBODIES**

**REALITY TESTING** see under **EGO**

## REC A PROTEIN

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METABOLISM

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**RECA PROTEIN** see **REC A PROTEIN**

**RECALL** see under **MEMORY**

**RECEPTORS, ACETYLCHOLINE** see **RECEPTORS, CHOLINERGIC**

## RECEPTORS, ADRENERGIC

ANALYSIS

Inhibition of monoamine oxidase in monoaminergic neurones in the rat brain by irreversible inhibitors. Fagervall I, et al. **Biochem Pharmacol** 1986 Apr 15;35(8):1381-7

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## RECEPTORS, ADRENERGIC, ALPHA

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## RECEPTORS, ADRENERGIC, BETA

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#### METABOLISM

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**RECEPTORS, ALPHA ADRENERGIC** see **RECEPTORS, ADRENERGIC, ALPHA**

## RECEPTORS, ANDROGEN

#### ANALYSIS

[Determination of steroid receptors in prostate cancer: possibilities and limits] Lämmel A, et al. **Urologe [A]** 1986 Jan;25(1):59–62 (Eng. Abstr.) **(Ger)**

#### DRUG EFFECTS

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#### METABOLISM

In vitro transformation of androgen receptor from murine skeletal muscle by cAMP. Ofenloch-Hähnle B, et al. **Biochem Biophys Res Commun** 1986 Mar 28;135(3):1069–75

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#### PHYSIOLOGY

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## RECEPTORS, ANTIGEN

#### ISOLATION & PURIFICATION

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#### PHYSIOLOGY

[Detection and significance of HBsAg associated receptors for polymerized human serum albumin in acute hepatitis B virus infection] Gerken G, et al. **Z Gastroenterol** 1986 Feb;24(2):93–9 (Eng. Abstr.) **(Ger)**

## RECEPTORS, ANTIGEN, B-CELL

#### ANALYSIS

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#### IMMUNOLOGY

Autocrine models of B-lymphocyte growth. II. Interleukin-1 supports the proliferation of transformed lymphoblasts but not the stimulation of resting B cells triggered through their receptors for antigen. Gordon J, et al. **Immunology** 1986 Mar;57(3):419–23

#### METABOLISM

Disulfide linkages between antigen-binding receptors on chicken B-lymphocytes. Rosenspire AJ, et al. **Mol Immunol** 1986 Jan;23(1):1–13

## RECEPTORS, ANTIGEN, T-CELL

#### GENETICS

Activation of protein kinase C modulates the expression of the T3/T cell antigen receptor complex on human T lymphocytes. Davies AA, et al. **Biosci Rep** 1985 Oct-Nov; 5(10–11):867–76

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**RECEPTORS, BENZODIAZEPINE** see **RECEPTORS, GABA-BENZODIAZEPINE**

**RECEPTORS, BENZODIAZEPINE-GABA** see **RECEPTORS, GABA-BENZODIAZEPINE**

**RECEPTORS, BETA ADRENERGIC** see **RECEPTORS, ADRENERGIC, BETA**

**RECEPTORS, BIOLOGICAL** see **RECEPTORS, ENDOGENOUS SUBSTANCES**

## RECEPTORS, CHOLINERGIC

### ANALYSIS

The developmental appearance of alpha-bungarotoxin binding sites on rodent spinal cord neurons in cell culture. Schaffner AE, et al. **Brain Res** 1986 Mar;390(2):239–47

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### DRUG EFFECTS

Induction of guinea pig respiratory airway hyperreactivity by Haemophilus influenzae: role of the histaminergic and cholinergic receptor systems. Folkerts G, et al. **Agents Actions** 1986 Jan;17(3–4):399–400

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### IMMUNOLOGY

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### METABOLISM

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### PHYSIOLOGY

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## RECEPTORS, COMPLEMENT

### ANALYSIS

Decreased C3b receptors (CR1) on erythrocytes from patients with systemic lupus erythematosus. Holme E, et al. **Clin Exp Immunol** 1986 Jan;63(1):41–8

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### PHYSIOLOGY

Receptor-mediated binding of C1q on pulmonary endothelial cells. Zhang SC, et al. **Tissue Cell** 1986;18(1):13–8

## RECEPTORS, CONCANAVALIN A

### ANALYSIS

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**RECEPTORS, CORTICOSTEROID** see **RECEPTORS, GLUCOCORTICOID**

## RECEPTORS, CYCLIC AMP

### METABOLISM

Local changes in fractional saturation of cGMP- and cAMP-receptors in intestinal microvilli in response to cholera toxin and heat-stable Escherichia coli toxin. van Dommelen FS, et al. **Biochim Biophys Acta** 1986 Apr 8; 886(1):135–42

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**RECEPTORS, DIAZEPAM** see **RECEPTORS, GABA-BENZODIAZEPINE**

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**RECEPTORS, HISTAMINE H1** see under **RECEPTORS, HISTAMINE**

**RECEPTORS, HISTAMINE H2** see under **RECEPTORS, HISTAMINE**

**RECEPTORS, HORMONE** see **RECEPTORS, ENDOGENOUS SUBSTANCES**

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**RECEPTORS, LECTIN** see **RECEPTORS, MITOGEN**

**RECEPTORS, LOW DENSITY LIPOPROTEINS** see **RECEPTORS, LDL**

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**RECEPTORS, MORPHINE** see **RECEPTORS, ENDORPHIN**

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**RECEPTORS, MUSCIMOL** see **RECEPTORS, GABA-BENZODIAZEPINE**

**RECEPTORS, NARCOTIC** see **RECEPTORS, ENDORPHIN**

**RECEPTORS, NEUROMEDIATOR** see **SYNAPTIC RECEPTORS**

**RECEPTORS, NEUROMODULATOR** see **SYNAPTIC RECEPTORS**

**RECEPTORS, NEUROREGULATOR** see **SYNAPTIC RECEPTORS**

**RECEPTORS, NEUROTRANSMITTER** see **SYNAPTIC RECEPTORS**

## RECEPTORS, NICOTINIC

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**RECEPTORS, OPIATE** see **RECEPTORS, ENDORPHIN**

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### ANALYSIS

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RHO FACTOR see under TRANSCRIPTION FACTORS

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RHOMBENCEPHALIC SLEEP see SLEEP, REM

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**RIBONUCLEOSIDE DIPHOSPHATE REDUCTASE** see under **RIBONUCLEOTIDE REDUCTASES**

## RIBONUCLEOSIDES

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### METABOLISM

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**RIDA** see **SCRAPIE**

**RIDA VIRUS** see **SCRAPIE PRION**

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**RIMITEROL** see under **CATECHOLS**

**RING CHROMOSOMES** see under **CHROMOSOME ABERRATIONS**

**RINGWORM** see **TINEA**

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see related
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**ROUS SARCOMA** see **AVIAN SARCOMA**

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**RUBIVIRUS** see **RUBELLA VIRUS**

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## SAMPLING STUDIES

see related
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**SAND-DOLLAR** see **SEA URCHINS**

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## SODIUM HYDROXIDE

### ADVERSE EFFECTS

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**SODIUM LAURYL SULFATE** see **SODIUM DODECYL SULFATE**

**SODIUM M... ...DS**

**SODIUM PERTECHNETATE TC 99M** see **TECHNETIUM TC 99M PERTECHNETATE**

**SODIUM, POTASSIUM ATPASE** see **ADENOSINE TRIPHOSPHATASE, SODIUM, POTASSIUM**

**SODIUM TETRADECYL SULFATE** see under **FATTY ALCOHOLS**

**SODIUM VALPROATE** see **VALPROATE**

**SOFT CONTACT LENSES** see **CONTACT LENSES, HYDROPHILIC**

## SOFT TISSUE NEOPLASMS

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**STIMULATION, PHOTIC** see **PHOTIC STIMULATION**

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**SUBMAXILLARY GLAND** see **SUBMANDIBULAR GLAND**

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## SUDDEN INFANT DEATH

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**SULBENICILLIN** see under **PENICILLIN G**

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## SULFADIAZINE

### ANALYSIS

[Physico-chemical study of sulfamides: sulfadiazine, sulfadimethoxine and sulfamerazine] Maury L, et al. **Farmaco [Prat]** 1986 Jan;41(1):26–35 (Eng. Abstr.) **(Fre)**

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## SULFADIMETHOXINE

### ANALYSIS

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### BLOOD

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### METABOLISM

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**SULFADIMIDINE** see **SULFAMETHAZINE**

**SULFADOXINE** see under **SULFANILAMIDES**

**SULFAETHIDOLE** see under **SULFATHIAZOLES**

**SULFAFURAZOLE** see **SULFISOXAZOLE**

**SULFAGUANIDINE** see under **GUANIDINES**

**SULFALENE** see under **SULFANILAMIDES**

## SULFAMERAZINE

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## SULFAMETHAZINE

### ADVERSE EFFECTS

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Comparative pharmacokinetic study of four different sulfonamides in combination with trimethoprim in human volunteers. Garg SK, et al. **Int J Clin Pharmacol Ther Toxicol** 1986 Jan;24(1):23–5

**SULFAMETHIZOLE** see under **SULFATHIAZOLES**

## SULFAMETHOXAZOLE

### ADMINISTRATION & DOSAGE

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### METABOLISM

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### PHARMACODYNAMICS

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**SULFAMETHYLISOXAZOLE** see **SULFAMETHOXAZOLE**

**SULFAMONOMETHOXINE** see under **SULFANILAMIDES**

## SULFAMOXOLE

### METABOLISM

Comparative pharmacokinetic study of four different sulfonamides in combination with trimethoprim in human volunteers. Garg SK, et al. **Int J Clin Pharmacol Ther Toxicol** 1986 Jan;24(1):23–5

**SULFAMYL DIURETICS** see **DIURETICS, SULFAMYL**

## SULFANILAMIDES

### ADVERSE EFFECTS

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**SULFANILIC ACIDS** see under **BENZENESULFONATES**

**SULFAPYRIDINE** see under **SULFANILAMIDES**

**SULFAQUINOXALINE** see under **SULFANILAMIDES**

**SULFASALAZINE** see **SALICYLAZOSULFAPYRIDINE**

## SULFATASES

### ANTAGONISTS & INHIBITORS

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### BIOSYNTHESIS

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### BLOOD

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### METABOLISM

Rapid degradation of steroid sulfatase in multiple sulfatase deficiency. Horwitz AL, et al. **Biochem Biophys Res Commun** 1986 Mar 13;135(2):389–96

### PHARMACODYNAMICS

The effect of steroid sulphatase on stratum corneum shedding in patients with X-linked ichthyosis. Yoshiike T, et al. **Br J Dermatol** 1985 Dec;113(6):641–3

**SULFATE ADENYLYLTRANSFERASE** see under **NUCLEOTIDYLTRANSFERASES**

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### ANALYSIS

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### METABOLISM

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### PHARMACODYNAMICS

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**SULFATES, INORGANIC** see **SULFATES**

**SULFATES, ORGANIC** see **SULFURIC ACIDS**

## SULFATHIAZOLES

### ADMINISTRATION & DOSAGE

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**SWISS BLUE** see **METHYLENE BLUE**

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SYNAPTONEMAL COMPLEX see under MEIOSIS

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**T CELL GROWTH FACTOR** see **MITOGENIC FACTORS, LYMPHOCYTE**

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**TAUROCHOLATE** see **TAUROCHOLIC ACID**

## TAUROCHOLIC ACID

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**TC-99M MDP** see **TECHNETIUM TC 99M MEDRONATE**

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**THIOGALACTOSIDES** see under **THIOGLYCOSIDES**

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**THIOREDOXIN** see under **BACTERIAL PROTEINS**

**THIOREDOXIN REDUCTASE (NADPH)** see under **NADH, NADPH OXIDOREDUCTASES**

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**THROAT** see **PHARYNX**

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**THROMBOCYTHEMIA, ESSENTIAL** see **THROMBOCYTHEMIA, HEMORRHAGIC**

## THROMBOCYTHEMIA, HEMORRHAGIC

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THROMBOCYTHEMIA, PRIMARY see THROMBOCYTHEMIA, HEMORRHAGIC

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THROMBOLYTIC AGENTS see FIBRINOLYTIC AGENTS

THROMBOPENIA see THROMBOCYTOPENIA

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THROMBOPLASTINOGEN see FACTOR VIII

THROMBOPOIETIN see under GLYCOPROTEINS

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THROMBOSIS, VENOUS see THROMBOPHLEBITIS

THROMBOXANE A SYNTHASE see THROMBOXANE SYNTHETASE

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**THRUSH** see **CANDIDIASIS, ORAL**

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THYMUS-INDEPENDENT ANTIGENS see ANTIGENS, T-INDEPENDENT

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## THYROID HORMONES

see related
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**THYROXINE 5'-DEIODINASE** see **IODIDE PEROXIDASE**

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**TOSYLLYSINE CHLOROMETHYL KETONE** see under **AMINO ACID CHLOROMETHYL KETONES**

**TOSYLPHENYLALANYL CHLOROMETHYL KETONE** see under **AMINO ACID CHLOROMETHYL KETONES**

**TOTAL BODY IRRADIATION** see **WHOLE BODY IRRADIATION**

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**TRICHLOROETHANES** see under **HYDROCARBONS, CHLORINATED**

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**TRICHOCEPHALIASIS** see **TRICHURIASIS**

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**TRIFLUOROTHYMIDINE** see under **THYMIDINE**

**TRIFTAZIN** see **TRIFLUOPERAZINE**

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**TRIMEBUTINE** see under **BENZOATES**

**TRIMECAINE** see under **ACETANILIDES**

**TRIMEDOXIME** see under **OXIMES**

**TRIMEPRANOL** see under **PROPANOLAMINES**

**TRIMESTER, SECOND** see **PREGNANCY TRIMESTER, SECOND**

**TRIMETAPHAN** see **TRIMETHAPHAN**

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**TRYPTAMINE RECEPTORS** see **RECEPTORS, SEROTONIN**

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**TRYPTOPHAN MONOOXYGENASE** see **TRYPTOPHAN HYDROXYLASE**

## TRYPTOPHAN OXYGENASE

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**TRYPTOPHAN PYRROLASE** see **TRYPTOPHAN OXYGENASE**

**TRYPTOPHANASE** see under **LYASES**

**TRYPTOPHANYL T RNA SYNTHETASE** see under **AMINO ACYL T RNA SYNTHETASES**

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TSH see THYROTROPIN

TSUTSUGAMUSHI see SCRUB TYPHUS

TUBAL LIGATION see STERILIZATION, TUBAL

TUBE FEEDING see ENTERAL FEEDING

TUBER CINEREUM see under HYPOTHALAMUS

TUBERCIDIN see under RIBONUCLEOSIDES

## TUBERCULIN

### IMMUNOLOGY

Frequency of tuberculin-reactive T-lymphocytes in pleural fluid and blood from patients with tuberculous pleurisy. Fujiwara H, et al. **Chest** 1986 Apr;89(4):530-2

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TUBERCULIN-TYPE HYPERSENSITIVITY see HYPERSENSITIVITY, DELAYED

## TUBERCULOMA

### COMPLICATIONS

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### DIAGNOSIS

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### COMPLICATIONS

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### COMPLICATIONS

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### COMPLICATIONS

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## TUBERCULOSIS, MENINGEAL

### DIAGNOSIS

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### COMPLICATIONS

Tuberculosis in renal failure: a high incidence in patients born in the third world. Cuss FM, et al. **Clin Nephrol** 1986 Mar; 25(3):129-33

### DIAGNOSIS

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### ETIOLOGY

[Acquired immune deficiency syndrome in poor countries: disseminated tuberculosis as opportunistic infection in drug addicts? (letter)] Aguado García M, et al. **Med Clin (Barc)** 1986 Jan 25;86(3):132-3 **(Spa)**

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### DIAGNOSIS

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TUBERCULOSIS, ORAL see under TUBERCULOSIS

## TUBERCULOSIS, OSTEOARTICULAR

### OCCURRENCE

[Tuberculosis of the skeleton (letter)] Steensma JT. **Ned Tijdschr Geneeskd** 1986 Mar 22;130(12):558-9 (Dut)

### RADIOGRAPHY

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### DIAGNOSIS

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### ETIOLOGY

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### IMMUNOLOGY

Frequency of tuberculin-reactive T-lymphocytes in pleural fluid and blood from patients with tuberculous pleurisy. Fujiwara H, et al. **Chest** 1986 Apr;89(4):530-2

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## TUBERCULOSIS, PULMONARY

see related
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PNEUMONECTOMY

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[Unusual finding of a calcified mediastinal mass of tuberculous origin] Dore R, et al. **Radiol Med (Torino)** 1986 Jan-Feb;72(1–2):59–61 **(Ita)**

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[Long-term observation of patients with a history of bronchopulmonary tuberculosis in adolescence] Kratule RV, et al. **Probl Tuberk** 1986;(1):11–4 (Eng. Abstr.) **(Rus)**

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Elevated serum aminotransferase induced by isoniazid in relation to isoniazid acetylator phenotype. Yamamoto T, et al. **Hepatology** 1986 Mar-Apr;6(2):295–8

### IMMUNOLOGY

[The function of phagocytosing cells in pulmonary tuberculosis patients] Chernushenko EF, et al. **Probl Tuberk** 1986;(1):59–63 (Eng. Abstr.) **(Rus)**

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### PHYSIOPATHOLOGY

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### COMPLICATIONS

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TUBERCULOSIS SOCIETIES see under VOLUNTARY HEALTH AGENCIES

## TUBERCULOSIS, SPINAL

### DIAGNOSIS

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## TUBERCULOSIS, UROGENITAL

### THERAPY

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TUBERCULOSIS VACCINES see BCG VACCINE

TUBERCULOSTATIC AGENTS see ANTITUBERCULAR AGENTS

## TUBEROUS SCLEROSIS

### RADIOGRAPHY

[Atypical radiologic picture in a case of tuberous sclerosis] Palmieri A, et al. **Radiol Med (Torino)** 1985 Dec; 71(12):876–8 **(Ita)**

## TUBOCURARINE

### ANALOGS & DERIVATIVES

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### PHARMACODYNAMICS

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### ANALYSIS

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### ISOLATION & PURIFICATION

Separation of assembly-competent tubulin from brain microtubule protein preparations using a fast-performance liquid chromatography procedure. Roychowdhury S, et al. **J Neurochem** 1986 May;46(5):1399–405

### METABOLISM

GTP influences the binding of vincristine in human tumor cytosols. Bowman LC, et al. **Biochem Biophys Res Commun** 1986 Mar 28;135(3):695–700

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### PHARMACODYNAMICS

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TUBULOINTERSTITIAL NEPHRITIS see NEPHRITIS, INTERSTITIAL

TUMESCENCE, PENILE see PENILE ERECTION

TUMOR ANTIBODIES see ANTIBODIES, NEOPLASM

TUMOR ANTIGENS see ANTIGENS, NEOPLASM

TUMOR ANTIGENS, VIRAL see ANTIGENS, VIRAL, TUMOR

TUMOR CELLS, EMBOLIC see NEOPLASM CIRCULATING CELLS

TUMOR INITIATORS see CARCINOGENS

TUMOR PROMOTERS see CARCINOGENS

TUMOR STAGING see NEOPLASM STAGING

TUMOR STEM CELL ASSAY see under COLONY-FORMING UNITS ASSAY

## TUMOR STEM CELLS

### ANALYSIS

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**URIDINE DIPHOSPHATE GLUCOSE DEHYDROGENASE** see under **CARBOHYDRATE DEHYDROGENASES**

**URIDINE DIPHOSPHATE GLUCOSE EPIMERASE** see under **CARBOHYDRATE ISOMERASES**

**URIDINE KINASE** see under **PHOSPHOTRANSFERASES, ATP**

**URIDINE MONOPHOSPHATE** see under **URACIL NUCLEOTIDES**

**URIDINE PHOSPHATES** see **URACIL NUCLEOTIDES**

**URIDINE PHOSPHORYLASE** see under **PENTOSYLTRANSFERASES**

**URIDINE TRIPHOSPHATE** see under **URACIL NUCLEOTIDES**

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### ETIOLOGY

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**X-RAY EMISSION SPECTROMETRY, ELECTRON PROBE** see **ELECTRON PROBE MICROANALYSIS**

**X-RAY INTENSIFYING SCREENS** see under **RADIOGRAPHIC IMAGE ENHANCEMENT**

**X-RAY MICROANALYSIS, ELECTRON MICROSCOPIC** see **ELECTRON PROBE MICROANALYSIS**

**X-RAY MICROANALYSIS, ELECTRON PROBE** see **ELECTRON PROBE MICROANALYSIS**

## X-RAY THERAPY

X-RAY THERAPY see under RADIOTHERAPY

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**ZIRAM** see under **THIOCARBAMATES**

**ZOLAZEPAM** see under **AZEPINES**

**ZOLIMIDINE** see under **PYRIDINES**

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## WERLHOF'S DISEASE

THROMBOCYTOPENIC

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